SONY-10353

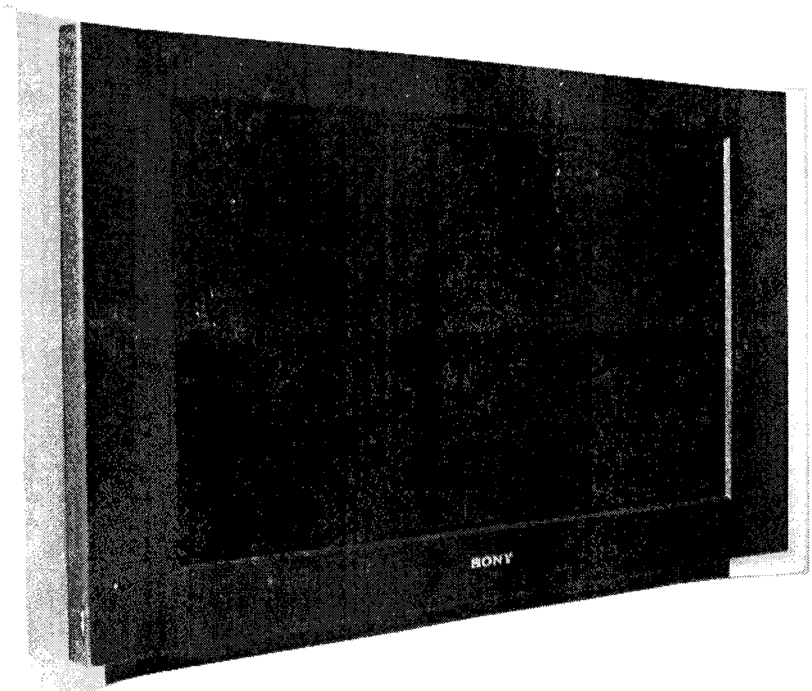
Self Diagnosis
Supported model

SERVICE MANUAL

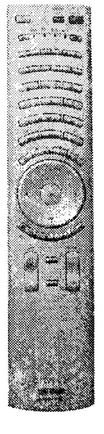
AE-7A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32HQ100B	RM-940	FR	SCC-R12B-A	**KV-36HQ100B**	RM-940	FR	SCC-R12A-A
KV-32HQ100E	RM-940	ESP	SCC-R13A-A	**KV-36HQ100E**	RM-940	ESP	SCC-R13B-A
KV-32HQ100K	RM-940	OIRT	SCC-R11B-A	**KV-36HQ100K**	RM-940	OIRT	SCC-R11A-A

FD Trinitron



KV-32/36HQ100



RM-940

TRINITRON ® COLOR TV

SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

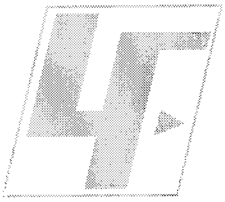
ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

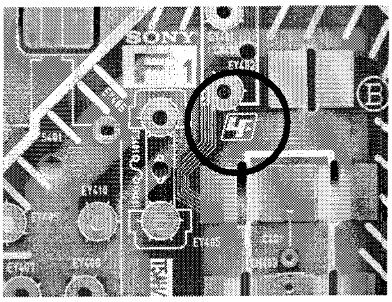
CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.



example 1



example 2

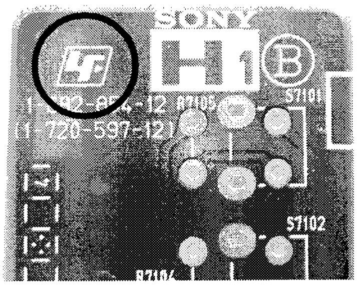


Table 1

Board	Function
F	AC Switch, SIRCS Rx, LED
H	Front AV & Headphone

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)
K	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)

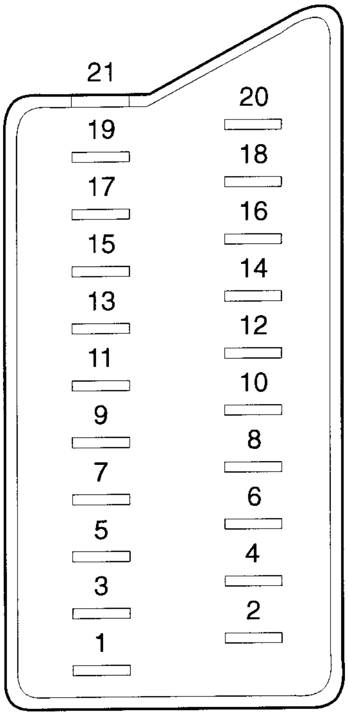
Picture Tube	Super Fine Pitch FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally) KV-32HQ100 Approx 92 cm (36 inches) (Approx 88 cm picture measured diagonally) KV-36HQ100
Input/Output Terminals [REAR]	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.
2: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.
3: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (selectable)
4:21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for S Video.
Phono Jacks	Output Connectors variable for Audio Signals
PCMCIA Socket	Conditional Access Module
Input/Output Terminals [SIDE]	
Headphone jack	stereo mini jack
5: Audio inputs	phono jacks
5: Video inputs	phono jacks
5: S Video input	4 pin DIN

Sound Output	
Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
Subwoofer	1x30W (Music Power) 1x15W (RMS)
General Specifications	
Power Requirements	220 - 240V
Power Consumption	Approx 160W (KV-32HQ100) Approx 160W (KV-36HQ100)
Dimensions	Approx 1015x 575 x 590mm (KV-32HQ100) Approx 1100x 625 x 620mm (KV-36HQ100)
Weight	Approx 68kg (KV-32HQ100) Approx 78kg (KV-36HQ100)
Supplied Accessories	RM-940 Remote Commander IEC designated AA battery (2)
Other Features	100 Hz, DCF, DNR, Auto Noise Reduction, PAP, Picture & Text, Picture Freeze, DQP & DF, Virtual Dolby, BBE, EPG
Remote control system : Infrared control	
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)

Design and specifications are subject to change without notice.

Model Name Item	KV-32HQ100B ~ KV-36HQ100B	KV-32HQ100E ~ KV-36HQ100E	KV-32HQ100K ~ KV-36HQ100K
Pal Comb	OFF	OFF	OFF
PIP	OFF	OFF	OFF
RGB Priority	ON	ON	ON
Woofer Box	ON	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Scart 3	ON	ON	ON
Scart 4	ON	ON	ON
Side in (5)	ON	ON	ON
Projector	OFF	OFF	OFF
Norm B/G	ON	ON	ON
Norm I	ON	OFF	OFF
Norm D/K	ON	ON	ON
Norm AUS	OFF	OFF	OFF
Norm L	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	ON	ON

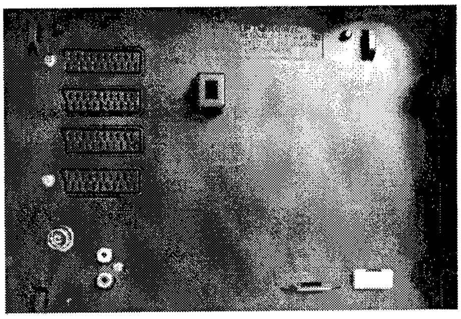
21 pin connector



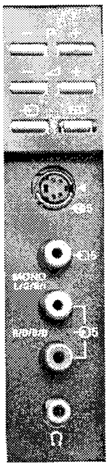
Pin No	1	2	3	4	Signal	Signal level
1	○	○	○	●	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	●	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	○	Ground (audio)	
5	○	○	○	○	Ground (blue)	
6	○	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	○	Ground (green)	
10	○	○	○	○	Open	
11	○	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	○	Open	
13	○	○	○	○	Ground (red)	
14	○	○	○	○	Ground (blanking)	
15	○	○	●	●	Red input	0.7 +/- 3dB, 75 ohms, positive
	●	●	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	●	●	○	○	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	○	Ground (video output)	
18	○	○	○	○	Ground (video input)	
19	○	○	○	●	Video output	1V +/- 3dB, 75ohms, positivesync 0.3V (-3+10dB)
20	○	○	○	○	Video input	1V +/- 3dB, 75ohms, positivesync 0.3V (-3+10dB)
	●	●	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positivesync 0.3V (-3+10dB)
21	○	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/-3dB 75ohm, positive Sync. 0.3V -3+10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

CUSTOMER SERVICE MENU

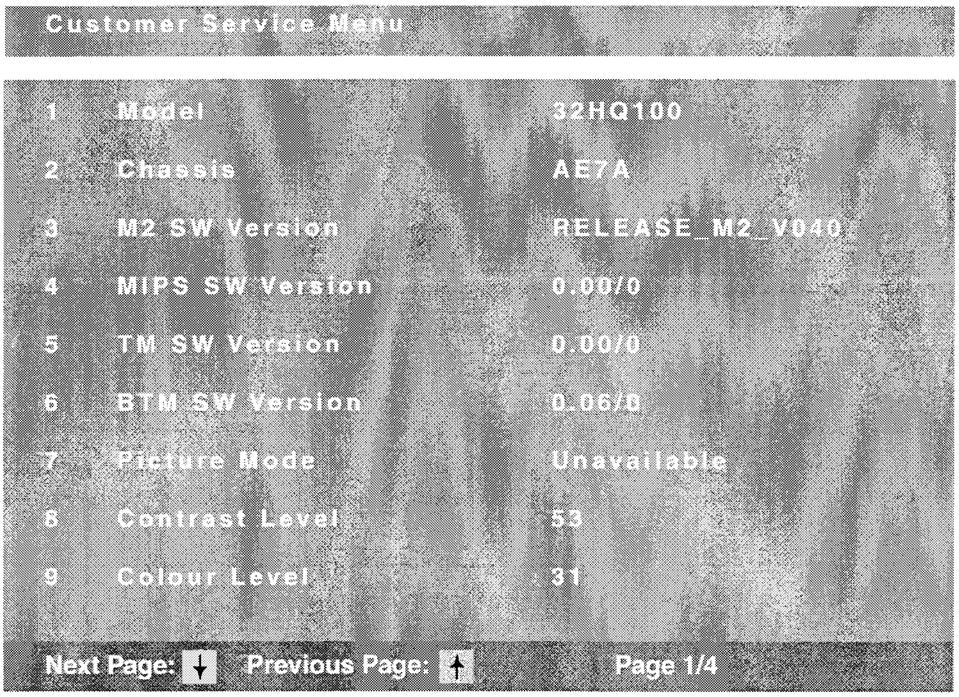
The Customer Service menu is provided in order to assist fault diagnosis when the customer reports a problem. The menu can be invoked by the customer on request from the service technician or dealer during a telephone conversation. The customer is then able to provide information regarding the current status of the set. The information gained can then help to increase the number of problems that are solved on the first call out by the service engineer and also reduce the amount of "No problem found" cases. The Customer Service Menu will be read only, preventing the customer from modifying the state of the TV at this time.

1. Entering the Customer Service Menu

The customer service menu can be entered by pressing and holding the Menu key on the Commander while pressing the volume minus local key on the TV.

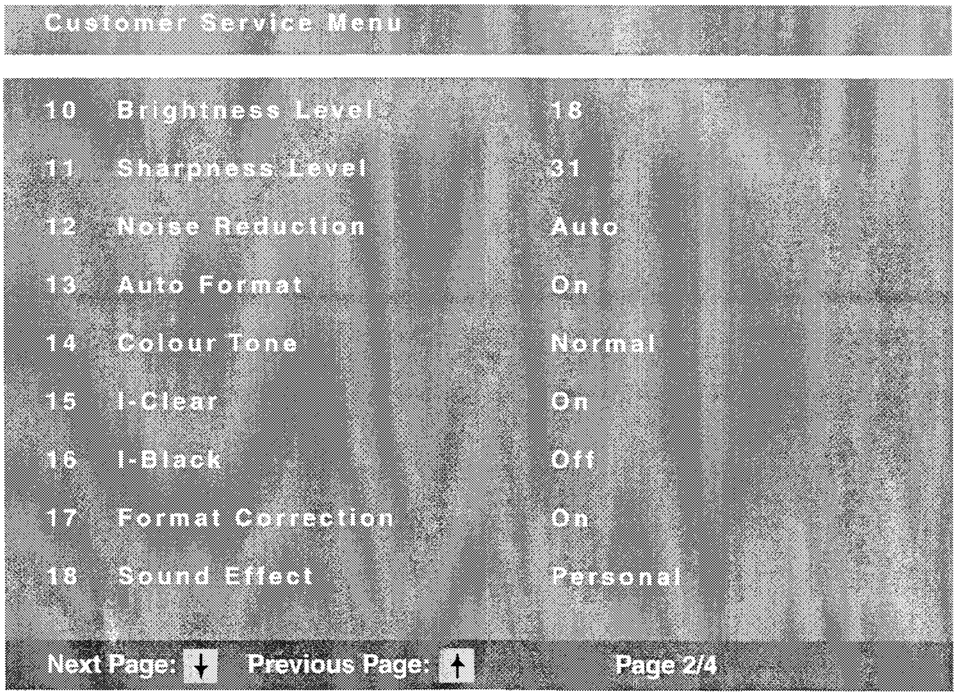
2. Description of Information available

The following information is available from the Customer Service Menu:



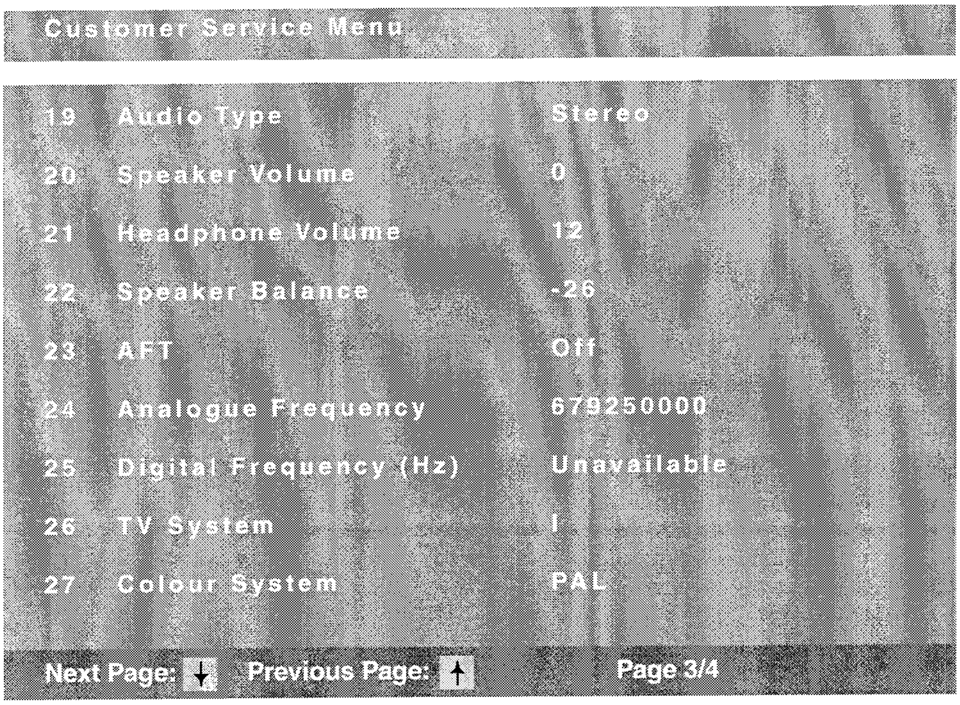
Customer Service Menu

1	Model	32HQ100
2	Chassis	AE7A
3	M2 SW Version	RELEASE_M2_V040
4	MIPS SW Version	0.00/0
5	TM SW Version	0.00/0
6	BTM SW Version	0.06/0
7	Picture Mode	Unavailable
8	Contrast Level	53
9	Colour Level	31



Customer Service Menu

10	Brightness Level	18
11	Sharpness Level	31
12	Noise Reduction	Auto
13	Auto Format	On
14	Colour Tone	Normal
15	I-Clear	On
16	I-Black	Off
17	Format Correction	On
18	Sound Effect	Personal



Customer Service Menu

19	Audio Type	Stereo
20	Speaker Volume	0
21	Headphone Volume	12
22	Speaker Balance	-26
23	AFT	Off
24	Analogue Frequency	679250000
25	Digital Frequency (Hz)	Unavailable
26	TV System	I
27	Colour System	PAL

Next Page: ↓
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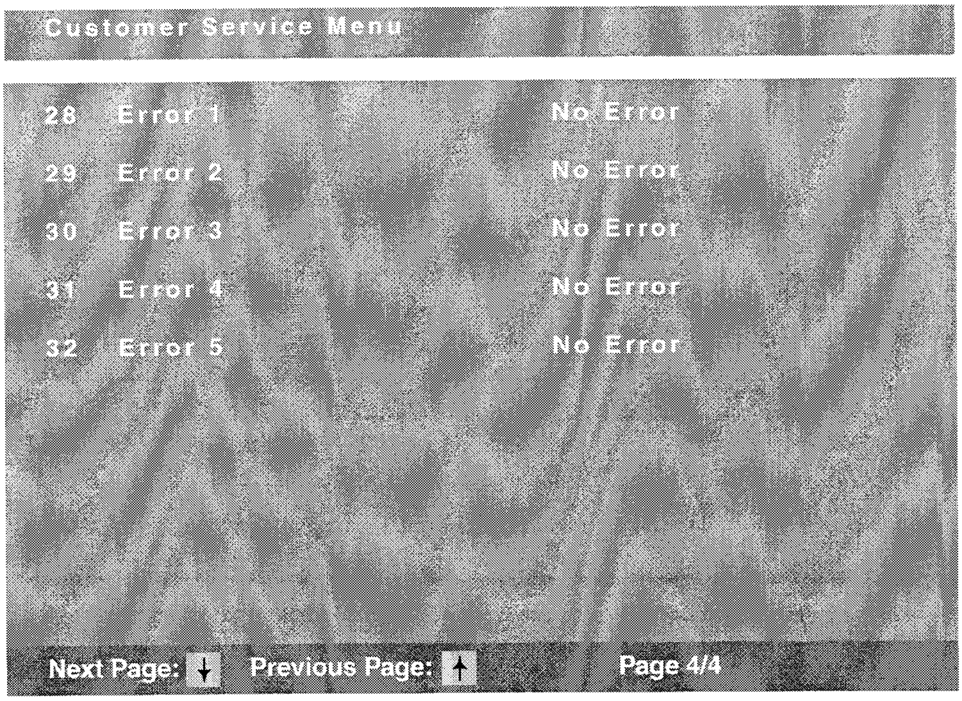


Customer Service Menu

28	Error 1	No Error
29	Error 2	No Error
30	Error 3	No Error
31	Error 4	No Error
32	Error 5	No Error

Next Page: ↓
Previous Page: ↑
Page 4/4

AE-7A SELF DIAGNOSTIC SOFTWARE

Error diagnostics are used to diagnose if parts of the chassis are faulty. Some errors can be safety critical. In this case the TV set is put into standby.

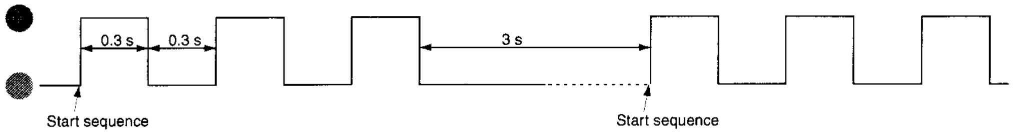
An error is communicated by:

- Flashing the LED red at the front of the TV
- Via the error monitor service menu
- Via the Customer Service Menu (CSM)
- Via an external error reader connected to the service connector

1. LED Errors

The most important errors are signalled via this method.
This is also the only way that safety critical errors can be communicated since the TV will be in standby.

The LED sequence below is an example of Error Code 3. An error is determined by the number of short red flashes of the LED in between a longer solid green LED indication.



The following table displays the supported error codes.

LED ERROR CODE	ERROR DESCRIPTION	PRIORITY
01	Not used for error notification as it is already used for SIRCS acknowledge	Highest
02	OCP (Over Current Protection)	
03	OVP (Over Voltage Protection)	
04	Vertical Protection	
05	Unstable AKB(check starts after 30s,disabled in Production Mode)	
06	Horizontal Protection	
07	AUP (Speaker Protection)	
08	I2C Viper Bus 0 Error	
09	I2C Viper Bus 1 Error	
10	I2C M2 Bus 0 Error	
11	I2C M2 Bus 1 Error	
12	M2 NVM Error	
13	Viper NVM Error	
14	Viper Flash Memory Error	
15	N Board Error	
16	A Board Error	
17	B Board Error	
18	J Board Error	
19	A1 Board Error (CXD2099 - Common Interface)	
20	Backend (CXA2170)	
21	Analogue Colour Decoder (CXA2163)	↓
22	Main Digital Colour Decoder (SAA7118)	
23	Sound Processor (MSP3411G)	Lowest

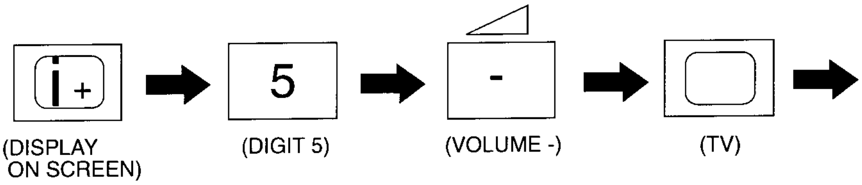
LED code 1 has the highest priority.

Errors found corresponding to LED error codes 2-4 will put the TV into standby under all conditions.
However, an error corresponding to LED error code 5 (Unstable AKB) will only put the TV into standby in service mode – the LED will flash in production mode without the TV going into standby.

2. Error Monitor Menu

The error monitor is displayed by:

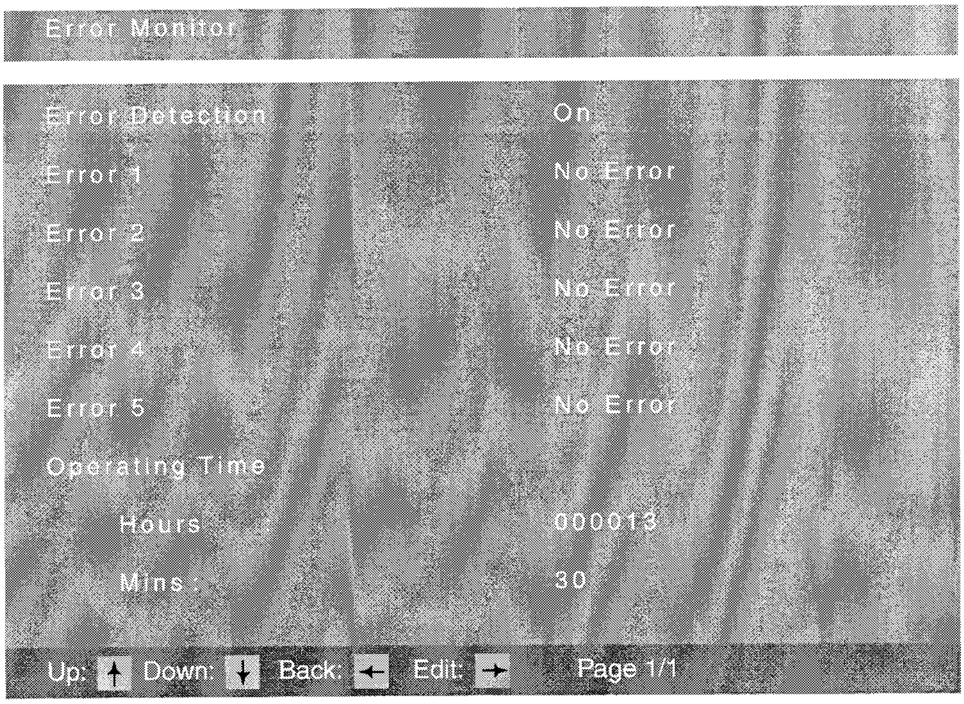
- Entering TT command TT99, or
- Executing the following key sequence when the TV set is in standby:


i+
5
-
(DISPLAY ON SCREEN)
(DIGIT 5)
(VOLUME -)
(TV)

The error monitor displays the following information:

- The last 5 errors that are stored in flash
- The current error
- The operating time of the TV set

Error detection can also be enabled or disabled from this menu.



Error Monitor

Error Detection	On
Error 1	No Error
Error 2	No Error
Error 3	No Error
Error 4	No Error
Error 5	No Error
Operating Time	
Hours	000013
Mins :	30

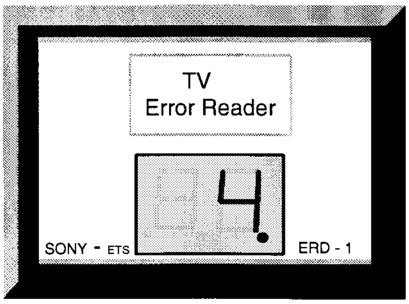
Up: ↑ Down: ↓ Back: ← Edit: → Page 1/1

The following error messages are displayed in the error monitor. The error code is displayed in the external error reader.

Error Code	Error Message
000h	No Error Occured
001h	Bus Error, I2C0 M2
002h	Bus Error, I2C1 M2
003h	Bus Error, I2C0 Viper
004h	Bus Error, I2C1 Viper
100h	N-Board
101h	N-B. SAA7118, Main Col Dec
102h	N-B. SAA7118, Sub Col Dec
103h	N-B. PNX8510, Anabel
104h	N-B. Viper EEPROM
105h	N-B. ME ASIC
106h	N-B. ICIB ASIC
107h	N-B. PCF8574, Port Exp
108h	N-B. ST24C32, M2 NVM
200h	A-Board
201h	A-B. TU1100, Main ana. Tuner
202h	A-B. TU1100, Main ana. IF
203h	A-B. TU1200, Sub ana. Tuner
204h	A-B. TU1200, Sub ana. IF
205h	A-B. CXA2170, Backend
206h	A-B. CXA8070, Dyn. Conv.
207h	A-B. MB88141, Defl. DAC
208h	A-B. CXA2171 Video Switch
209h	A-B. CXA1875, Port Exp.
20Ah	A-B. MSP3411G, Sound Proc.
20Bh	A-B. PFC8593, RTC
20Ch	A-B. TU4100, Dig Tuner PLL
20Dh	A-B. TU4100, Dig COFDM
20Eh	A-B. PCF8574, Port Exp
300h	B-Board
301h	B-B. CXA2163, Ana Col Dec
302h	B-B. CXD3084, 3D Comb
400h	J-Board
401h	J4-B. CXA1855, Main AV Switch
402h	J4-B. CXA2149, Sub AV Switch
500h	F-Board / CXD2088 AV Link
600h	A1-Board / CXD2088, Comm Int

3. Error Reader Display

If no menu can be shown, the Error Reader can display the current error.The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the above table.



Due to the limited count of digits the Error Reader displays the message sequentially. The following example shows the definition of this sequence:

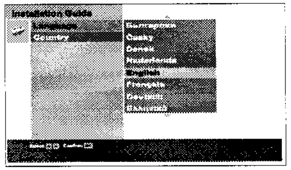
- Start new error sequence [.]
- Display of 1st error part 1 [4 .]
- Display of 1st error part 2 [0 1 .] Error Code = 401h

- Display of 2nd error part 1 [6 .]
- Display of 2nd error part 2 [0 1 .] Error Code = 601h

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

⑤ Automatically tuning the TV

Language/Country menu



1. When you switch on the TV for the first time, the Sony logo appears on the TV screen followed by the 'Memory Stick' logo, then the Language/ Country menu with the word 'English' highlighted. Press the ↑ or ↓ buttons on the remote control to choose the language you require then press the **OK** button to confirm.
2. The word Country is now highlighted. Press the ↑ or ↓ buttons to choose the country in which you are using the TV. It is important to select the correct country to ensure correct Teletext displays. Press the **OK** button to confirm your choice.

   The picture rotation prompt appears. Sometimes the Earth's natural magnetism can cause the screen to look tilted.
   a) If no correction is required, press the ← button.
   b) If some correction is required, press the **OK** button. Press the ↑ or ↓ button to rotate the picture over a range of -5 to +5. Press the **OK** button to store.

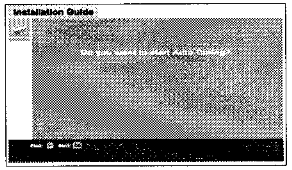
   The picture centering prompt appears (KV-36HQ100 model only). This allows you to adjust the vertical position of the display if it is not centralised.
   a) If no correction is required, press the ← button.
   b) If some correction is required, press the ↑ or ↓ button to set new position. Press the **OK** button to store.

   The autotune prompt screen appears. Press the **OK** button to select **Yes**. The autotune procedure begins, tuning all the available channels. A display then appears on the TV screen to inform you of the tuning progress.

   If no channels are found, a display appears on screen asking you to confirm your aerial is connected. Check the aerial has been connected correctly then press the **OK** button to repeat the tuning process.

   Once all signals have been captured and stored, the TV returns to normal operation and displays the analogue programme captured on programme number 1.
3. To view programmes, press the **PROG+/-** button or the numbered buttons on the remote control.

Autotune prompt



⑥ Finding your video channel

If you connected a VCR to your TV when following the 'Connecting an aerial and a VCR to the TV' instructions, you now need to find your video channel.

1. Press the **PROG+/-** button on the remote control until the picture from the pre-recorded tape appears on screen.

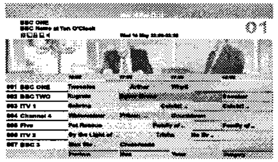
Notes:
If you wish to move your video channel to a different programme number, refer to 'Programme List Edit' on page 20.

If you have connected your VCR using a scart lead, press the ⊕/⊕ button repeatedly on the remote control until the picture from the pre-recorded tape appears on the TV screen.

NexTView

The NexTView menu provides a quick and easy way to:-
a)View a complete list of the programmes available.
b)View a list relating to a category of programme, e.g. Sports or Movies.
c)Set a programme to be recorded.

NexTView menu

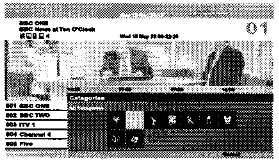


1. Press the ▣ button to display the NexTView screen. This screen consists of an event information area, a 2 hour timer bar (divided into 30 minute intervals) and a 7 channel programme list covering the 2 hour period.
2. Press the ↑ or ↓ buttons to move the cursor bar up or down the programme list and the → or ← buttons to move left and right. If you press the → button once more after highlighting the last programme on the right, the programmes scheduled for the next 2 hour period are displayed. As each programme is highlighted, a brief description of the programme appears in the event information area at the top of the screen. If you do not wish to select a programme from the 7 channels listed, press the **GREEN** button to display the next group of channels or the **RED** button to display the previous group of channels (if more than 7 channels are available).
3. When the programme you want to view is highlighted, press the **OK** button to exit the NexTView menu and view the programme.

Selecting a category of programme

The Category list allows you to search for programmes quickly by dividing the channels into different categories. For example, if you select 'News' from the Category list, then only programmes related to News will be shown in the NexTView menu.

Category list



1. With the NexTView menu on screen, press the **BLUE** button to display the Category display. This display contains icons representing categories such as sport and news.
2. Press the ↑, ↓, ← or → buttons to highlight the category icon you want, then press the **OK** button. The NexTView programme list will now only contain programmes related to the category type selected.

   The category types are as follows:

Icon	Category
▭	Displays all programme types
♥	Displays programmes you have stored as favourites
☺	Displays childrens programmes
🎩	Displays all entertainment programmes
🎞	Displays all movie programmes
⛷	Displays all sports programmes
🎤	Displays all news programmes
♪	Displays all music programmes
🎭	Displays all arts programmes

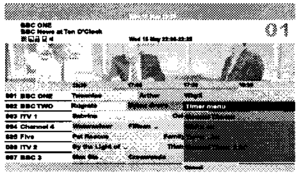
3. Press the ↑, ↓, ← or → buttons to highlight the programme you wish to view from the new list, then press the **OK** button to view.

Note:
If you choose a category other then 'All Programmes' or 'Favourites', it will not be stored when the TV is switched off, and will have to be selected again when the TV is next turned on.

Selecting a programme for recording or timed display

With the NexTView menu displayed press the ▲, ▼, ◄ and ► buttons to highlight a future programme, then press the **YELLOW** button to display the 'Timer' pop-up menu. This option allows you to choose from a) Timer REC, b) Wake up or c) Manual timer.

Timer pop-up display



a) Record
Highlight 'Timer REC' and press the **OK** button to automatically set your VCR to record the selected programme.

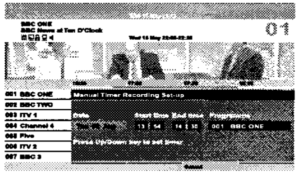
Notes:
This option only works if your VCR has SMARTLINK capability and it is connected to the AV3 SMARTLINK VCR, a message will tell you to set the timer recording function of your VCR so that it switches on and off to correspond with the programme you have stored for recording.

When a programme has been set for recording, a solid red bar appears under the timer bar in the menu, and the record symbol ▣ appears in the display. The coloured bar shows the time allocated for recording and reminds you that you are unable to record other programmes during that time period.

Once a recording has began you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled.

b) Reminder
Highlight 'Reminder' and press **OK** if you wish the future programme you selected to automatically appear on screen when transmission starts. When you use this option a solid green bar appears under the timer bar in the menu and the timer symbol ⊙ appears in the display. This coloured bar indicates that a 'Reminder' request has been activated. If you are watching another programme just before the transmission is due to begin, the TV will automatically switch to the 'Reminder' programme.
Note:
If you have placed the TV into standby, it will automatically turn itself on when the 'Reminder' programme is about to start. If the TV receives no command during the 'Reminder' programme, it will return to the standby mode.

Manual timer display



c) Manual
Highlight 'Manual' and press **OK** if you wish the TV to output a channel to your VCR for recording when the transmission begins. The Manual Timer display appears.

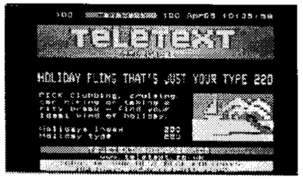
Press the ▲ or ▼ button to set the day of recording, then press the ► button to move to the start time. Repeat this procedure to set the start and stop times and the channel number, then press the **OK** button to store and return to the NexTView menu. Press the ▣ button to remove the NexTView menu. Unless you have a SMARTLINK VCR, you must now set the timer recording function of your VCR to switch on and off to correspond with the programme you have stored for recording.
Notes on recording:
The 'Manual' feature only works if you have connected your VCR to the AV3 socket ⊕3/⊖3 on the rear of the TV. After you have programmed a recording you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled. If you put the TV into standby mode, the standby indicator on the front of the TV flashes green periodically to remind you a recording has been programmed.

Timer list
The Timer pop-up menu also has a 'Timer list' option. If you highlight this and press the **OK** button, a screen is displayed showing all the programmes you have set for recording or wake up. To delete one of these programmes, proceed as follows:

1. Press the ▲ or ▼ button to highlight the programme you wish to delete.
2. Press the **OK** button to confirm deletion.
3. Press ▣ when you wish to return to return to normal TV operation.

Most TV channels provide a text service. The index page (usually page 100) provides information on how to use the service. Please ensure you are receiving a strong signal or some text errors may occur.

Text display



Viewing Text

1. Select the TV channel that carries the text service you wish to view.
2. Press the ⊜ button to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the right corner.

Notes:
If you wish to view the Text in full screen mode, press the ⊜ button a second time.

3. Press the numbered buttons to enter a three digit number for the text page you wish to view. Your selected page appears on screen.
4. Enter more 3 digit page numbers as required.
5. Press the ▢ button on the remote control at any time to exit Text mode.

How to use Text features

To select the next or preceding page	Press the ⓥ or ⓐ button.
To select a sub page	A text page can consist of several sub pages. In this case an information box is displayed at the bottom of the screen showing the number of sub pages available. Select the sub pages by pressing the ◄ or ► button.
To keep a page on display	Press the ⊕ button. Press again to cancel.
To use Fastext	Fastext allows you to access pages with one button push. When Fastext is available, four coloured items appear at the bottom of the screen. Press the corresponding coloured button on the remote control to display the page.
To use the Page Catching feature	Select a page that contains several page numbers (e.g. the index page), then press the **OK** button. Press the ▲ or ▼ button to highlight the page number required, then press the **OK** button again. Your selected page appears on screen.
To use the Reveal function	Press the ⊞ button to reveal hidden information on the page (such as answers to a quiz).

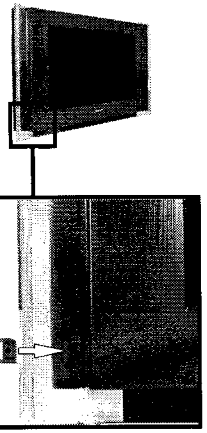
Viewing Top-Text

If transmitted by the broadcasting authorities, Top-Text can be viewed on this TV. When Top-Text is displayed, the screen is divided into two columns, the first column shows 'blocks' of pages and the second shows 'groups' of pages.

1. Press the ◄ or ► button to highlight the first or second column.
2. Press the ▲ or ▼ button to select the relevant 'group' or 'block' of pages.
3. Press the **OK** button to display the chosen pages.
4. Press the ▢ button when you wish to exit Top-Text.

A 'Memory Stick'* is a new recording medium with a data capacity that exceeds a floppy disk. It is specially designed for exchanging and sharing digital data among "Memory Stick" compatible products. Use 'Memory Stick' to display JPEG pictures (DCF version 1.0 format)** individually or as a slideshow presentation on the TV screen. Because it is removable, 'Memory Stick' can also be used for external data storage.

Notes:
*'Memory Stick' and the logo are trademarks of Sony Corporation.
**DCF (Design rules for Camera File systems) is a standard file name format for digital still cameras, DV camcorders etc. It is supported by Sony and other manufacturers.

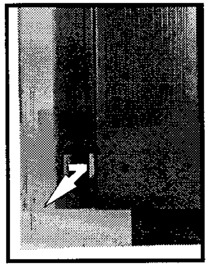


Inserting a 'Memory Stick'

Insert a 'Memory Stick' into the front control panel of the TV set until it clicks into the connector. The side showing the ▶ symbol must be facing you and it must be pointing towards the 'Memory Stick' socket. The red light flashes indicating that the 'Memory Stick' contents are being read.

Removing a 'Memory Stick'

Confirm that the red light is off. **Do not pull** the 'Memory Stick'. You must push the 'Memory Stick' and then release. The 'Memory Stick' will spring out.



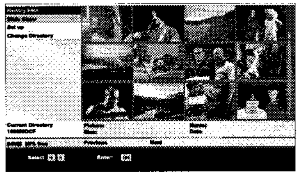
Note:
*Data stored on a 'Memory Stick' may become damaged or erased if you remove the 'Memory Stick' when it is reading or writing data.

The 'Memory Stick' Thumbnail menu

Press the button to display the Thumbnail menu. This screen gives an overview of the 'Memory Stick' content. From this menu you can also choose to see a slide show of the content, change the directory (if the 'Memory Stick' contains more than one directory), and change settings related to the viewing operation.

To view a picture

Thumbnail menu



1. Press ↓, ↑, ← or → buttons to highlight the picture you wish to view. There may be more pictures available than can be shown on the Thumbnail screen. If so, press the **RED** button to view the next group of pictures, or the **GREEN** button to view the previous group.
2. When you have selected the picture you want, press the **OK** button to display the Thumbnail 'Action List'. The picture you have selected for viewing will be outlined.
3. The option 'Full Screen View' should now be highlighted. Press the **OK** button to view the selected picture at full size.
   Whilst the picture is displayed at full size, you can select the next or previous picture for viewing by pressing the ← or → buttons.
4. If you wish, you can rotate the picture on view 90 degrees clockwise or ant-clockwise. Press the ↓ or ↑ button to highlight ↶ or ↷ symbol, then press the **OK** button.
5. *To return to the Thumbnail menu, first press the* **OK** button to display the full screen 'Action List'. Make sure 'Exit Full Screen View' is highlighted, then press the **OK** button once again.

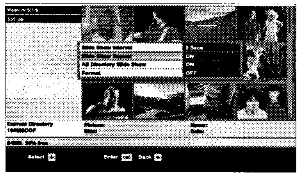
Slideshow

This feature allows you to display all the 'Memory Stick' pictures as a slideshow presentation on the TV screen.

1. With the Thumbnail menu on screen, press the ↓, ↑, ← or → buttons to highlight 'Slide show' then press the **OK** button.
2. The slideshow begins. (To change the length of time an image is displayed refer to the 'Setup' section below).
3. Press the **OK** button anytime during the slideshow to return to the 'Thumbnail' menu.

Setup

Set-up menu



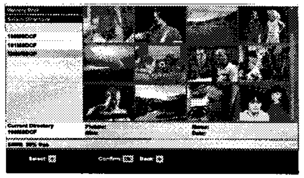
This feature allows you to 1) set the length of time for a picture to be displayed during a slideshow, 2) set a slideshow to continuously repeat, 3) display photographs from all directories) format the 'Memory Stick'.

1. With the Thumbnail menu on screen, press the ↓, ↑, ← or → buttons to highlight 'Set-up' then press the **OK** button to display the Set up menu.
2. Press the ↓ or ↑ button to highlight the option you require. The table below explains each option and its function.
3. Press the → button to return to Thumbnails once all settings are completed .

Slide show interval Sets the length of time a picture is displayed during a slideshow.	With 'Slideshow Interval' highlighted, press the **OK** button to activate. Press the ↓ or ↑ button to select 5 sec, 10 sec, 1 min, 5 min or 15 min, then press the **OK** button to store your choice.
Slideshow - Repeat Sets a slideshow to continuously repeat.	With 'Slide show repeat' highlighted, press the **OK** button to activate. Press the ↓ or ↑ button to select 'On' or 'Off' then press the **OK** button to confirm.
All directory slide show Displays photographs from all the available directories during the slideshow.	Highlight 'All directory slides show' then press the **OK** button to activate. Press the ↓ or ↑ button to select 'On' or 'Off' then press the **OK** button to store your choice.
Format Will delete all information on the 'Memory Stick' and performs a basic format	Highlight 'Format' then press the **OK** button to begin formatting. A message display appears asking you to confirm you want to format the 'Memory Stick'. 'Format' will be highlighted. Press the **OK** button to continue. A display will inform you when format is completed. Press the **OK** button to return to the Set-up menu.

Changing Directory

Directory list



This feature allows you to choose the directory that you wish to be displayed in the Thumbnail menu.

1. With the Thumbnail menu on screen, press the ↓, ↑, ← or → buttons to highlight 'Select Directory' then press the **OK** button.
2. A directory list appears in the display.
3. Press the ↓ or ↑ buttons to select your desired directory, then press the **OK** button. The photographs from that directory will now be displayed in the Thumbnail menu.

Using the TV menu system

This TV contains a menu system which is based on a series of on screen displays. These displays help you get the most from your TV, from customising the picture and sound to accessing advanced features. Use the following buttons on the remote control to operate the TV menu system:

1. Press the **MENU** button to display the main menu.
2. Use the following buttons to operate the menu:

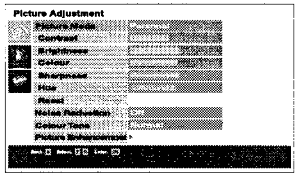
   - Press the ↓ or ↑ buttons to highlight the required menu or option.
   - Press the → button to enter the required menu or option.
   - Press the ← button to return to the last menu or option.
   - Press the ↓, ↑, ← or → buttons to alter the settings of the selected option.
   - Press the **OK** button to confirm and store your selection.

3. Press the **MENU** button to remove the menu from the TV screen.

Picture Adjustment menu

This menu allows you to customise the TV picture settings. Highlight the required option and press → to select. The table below explains each option and how to use it.

Picture adjustment menu



Picture Mode

This option allows you to select one of four picture modes. Press ↑ or ↓ to select Live, Personal, Movie or Game. Press **OK** to confirm your choice.

Contrast, Brightness, Colour, Sharpness, Hue

These options allow you to adjust the contrast, brightness, colour and sharpness. Press ← or → to set the levels. Press **OK** to confirm.

Note:

Hue will only be available if an NTSC broadcast is received.

Reset

This option resets all picture settings to the factory preset levels. Press → to restore default picture settings.

Note:

This feature is only available when ‘Picture Mode’ is set to ‘Personal’.

Noise Reduction

Sometimes a weak signal can produce a snowy picture (called Picture Noise). This option can help to reduce this effect. Press ↑ or ↓ to select Off, Low, Mid, High or Auto. Press **OK** to confirm.

Colour Tone

This option allows you to alter the tint of the picture. The settings available are:

Warm: Gives the white colours a red tint.
Normal: Gives the white colours a neutral tint.
Cool: Gives the white colours a blue tint.

Press ↑ or ↓ to select Warm, Normal or Cool. Press **OK** to confirm.

Picture Enhancement

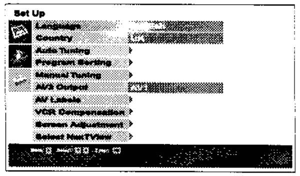
With this option you can enhance the sharpness and contrast levels of the TV picture. The settings available are:

i-Clear: Optimizes the sharpness levels of the TV picture. Press ↑ or ↓ to select Off, Low, Mid or High. Press **OK** to confirm.
i-Black: Optimizes the contrast levels of the TV picture. Press ↑ or ↓ to select On or Off then press **OK** to confirm your choice.

Set-up menu

This menu gives you access to more advanced features. The options are:

Set-up menu



Language/Country

When you first installed the TV you were asked to select your language and country. The ‘Language/Country’ option in this ‘Set-up’ menu allows you to change these settings. With the ‘Language/Country’ option highlighted, press → to enter the ‘Language/Country’ menu. Press ↓ or ↑ to select ‘Language’ or ‘Country’. Press → to select. Press ↓ or ↑ to highlight the required setting. Press **OK** to confirm.

Auto Tuning

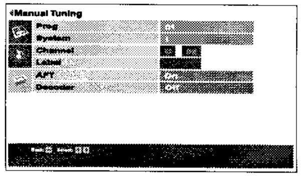
All the available channels were tuned in when the TV was first installed. This ‘Auto Tuning’ option allows you to repeat that process (e.g. to re-install the TV at an alternative location or search for new channels that have been launched by broadcasters). With the ‘Auto Tuning’ option highlighted, press → to select. The autotune prompt appears on screen. Press **OK** to start the auto tuning process. When all available channels have been tuned the TV returns to normal operation.

Programme List Edit

This option allows you to change the order in which the channels are stored on the TV and delete unwanted channels. With the ‘Programme List Edit’ option highlighted, press → to enter the ‘Programme List Edit’ menu. Press ↓ or ↑ to highlight the channel you wish to move to a new position, then press → to select (press the **OK** button if you wish to delete the channel). Press ↓ or ↑ to highlight the new position for your channel, then press **OK** button. Your chosen channel has now moved to the new position. Repeat to move other channels if required.

Manual Tuning

Manual tuning setting screen



This option allows you to manually tune in channels. With the ‘Manual Tuning’ option highlighted, press → to enter the Manual Tuning menu. Press ↓ or ↑ to highlight the programme number you wish to tune. Press **OK** to confirm, and display the setting screen. Press ↓ or ↑ to highlight System, then press the → button. Press ↓ or ↑ to set the system required. Choose from system B/G or D/K. Press the ← button. Press ↓ button to highlight Channel and press the → button. Press ↓ or ↑ to choose ‘C’ for terrestrial or ‘S’ for cable channels. Press the → button. The channel number is highlighted.

(a) **If you know the channel number you want:** Press the **numbered** buttons on the remote control to enter the channel number. Press **OK** to store.

(b) **If you do not know the channel number:** Press ↓ or ↑ to SEARCH. The TV set automatically searches for the next available TV broadcast channel or the VCR test signal. When a channel has been found press either **OK** to store or ↓ or ↑ to continue searching.

Naming a channel

The ‘Label’ option allows you to give the channel a personalised name.

a) Press ↓ or ↑ to highlight ‘Label’ then press the → button to enter.

b) Press the ↓ or ↑ button to select the first letter or number of your choice. Press → button to confirm. Select remaining characters in this way, then press the **OK** button to store.

AFT (Automatic Fine Tune)

This option allows you to fine tune the channel for optimum result.

a) Press the ↓ or ↑ button to highlight ‘AFT’ then press the → button to enter.

b) Press the ↓ or ↑ button to adjust the tuning frequency over a range of -15 to +15. Press the **OK** button to store.

Decoder

This option allows you to set a channel for viewing scrambled signal (e.g. from a pay TV decoder.

a) Press ↓ or ↑ to highlight ‘Decoder’ then press the → button to enter.

b) Press ↓ or ↑ to select AV1 or AV3 depending on which socket your scrambled signal is connected to. Press the **OK** button to store.

Teaching the remote control*

To eliminate the amount of remote controls you need, this remote control has a learning feature. Once set up as explained below, it can be used in place of your other remote controls.

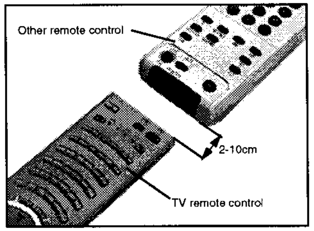
1. Press and hold the ➡ button for approximately six seconds, until the 'AUX' light flashes.
2. Press the button on which you wish to store a learned function on. The VCR, TV, DVD and AUX lights flash in order.

   The following buttons can be used to store learned functions:

VIDEO I/⏻ button	**Numbered** buttons
▲, ▼, ◀, ▶ buttons	**OK** button
Coloured buttons	**Menu** button
Prog+/- buttons	

3. Position the other remote control as shown. Press the button that you wish to teach your TV remote control. The VCR, TV, DVD and AUX lights illuminate at the same time when a function has been learned and stored.
4. Repeat steps 2 and 3 to learn other functions.
5. Press the ➡ button to finish.

*The functions learned may be lost if weak batteries are not replaced immediately.



Erasing the last learned function

1. Press and hold the ➡ button for approximately six seconds, until the 'AUX' light flashes.
2. Press the OK button to erase the last learned function.
3. Press the ➡ button to return to normal operation.

Erasing all the learned functions

1. Press and hold the ➡ button for approximately six seconds, until the 'AUX' light flashes.
2. Press the OK and ➡ buttons to erase all learned functions.
3. Press the ➡ button to return to normal operation.

Specifications

TV System	B/G/H, DK, I, L	
Colour System	PAL,SECAM NTSC 3.58, 4.43 (only Video In)	
Channel Coverage	VHF: UHF: CATV: HYPER: D/K:	E2-E12 E21-E69 S1-S20 S21-S41 R1-R12, R21-R69
Picture Tube	KV-32HQ100K: KV-36HQ100K:	Super Fine Pitch FD Trinitron Approx. 82cm Super Fine Pitch FD Trinitron Approx. 91cm
Sound Output	Left/Right: 2x20W (music power), 2x10W (RMS) Subwoofer: 1x30W (music power), 1x15W (RMS)	
Power Consumption	KV-32HQ100K: KV-36HQ100K:	Approx. 160W Approx. 160W
Dimensions (w x h x d)	KV-32HQ100K: KV-36HQ100K:	Approx. 1015 x 575 x 590mm Approx. 1100 x 625 x 620mm
Weight	KV-32HQ100K: KV-36HQ100K:	Approx. 68kg Approx. 78kg
Rear Terminals	⊖1	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
	⊖2	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
	⊖3/⊖3	21-pin Euro connector (CENELEC standard) including audio/videoinput, S-video input, selectable audio/video output.
	⊖4/⊖4	21-pin Euro connector (CENELEC standard) including audio/videoinput, S-video input.
	⊤	RF In
	⊖	Audio output - RCA phono jacks
Side Terminals	⊖5	Video input - phono jack
	⊖5	S video input - 4 pin DIN
	⊖5	Audio inputs - phono jacks
	🎧	Headphones jack - minijack stereo
Accessories Supplied	RM-940 remote control (1) IEC designated size AA battery (2)	

Design and specification are subject to change without notice

Additional information

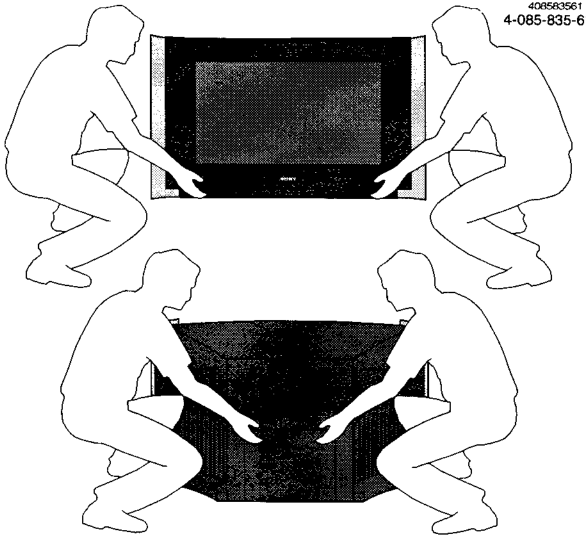
Troubleshooting

Problem	Possible causes	Solutions
No picture, no sound.	- Power off - TV in standby. - Aerial disconnected.	- Plug in the TV. - Press the Ⓘ button on the front of the TV. If the ⏻ indicator is on press the I/⏻ button on the remote control. - Check aerial connection
Poor or no picture (screen is dark), but good sound.	- Picture preset level adjustment	- Select 'Picture Adjustment' menu then adjust the brightness, picture and colour levels.
Some channels are blank.	- Scrambled or subscription-only channel. - Programme used only for data (no picture or sound). - Programme not being transmitted.	- Subscribe to pay-per-view broadcaster. - See 'Skipping a programme' section. - See 'Re-arranging your channels' section.
Standby indicator flashing.	- Fault (irregular flash)	- Do not open the cabinet, refer to qualified personnel. - Contact your nearest SONY Service Centre.
Good picture, no sound	- Volume control.	- Press the ⊿ + button on the remote control. - If 🔇 is displayed on the screen, press the 🔇 button on the remote control.
No colour on colour programmes	- Colour level setting.	- Select 'Picture Adjustment' menu then adjust the colour setting.
Remote control does not function	- Batteries low. - Wrong mode	- Replace batteries. - Press the ← or → button to check if your remote control is in the correct Mode for the equipment you are trying to control.
Distorted picture when changing programmes or selecting teletext	- Inputs from external equipment not switched off.	- Switch off all additionally connected equipment.

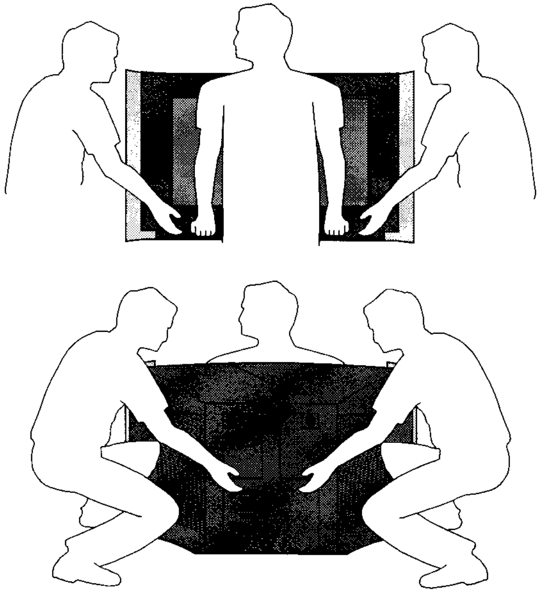
- **If you continue to have these problems, have your TV serviced by qualified personnel .**
- **NEVER open the casing yourself.**

Lifting the TV Set

4-085-835-61(01)



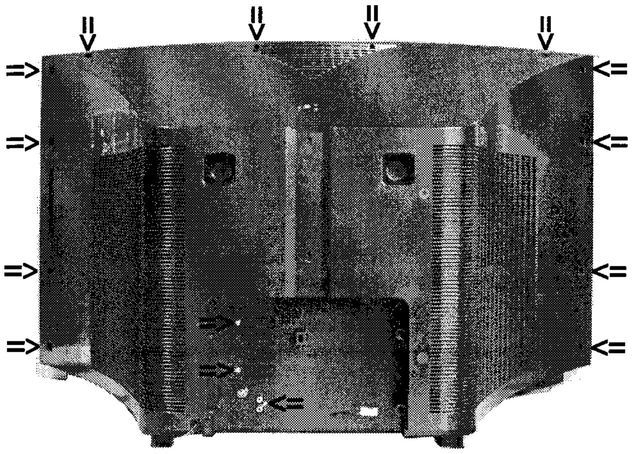
👤👤 =KV-32HQ100



👤👤👤 =KV-36HQ100

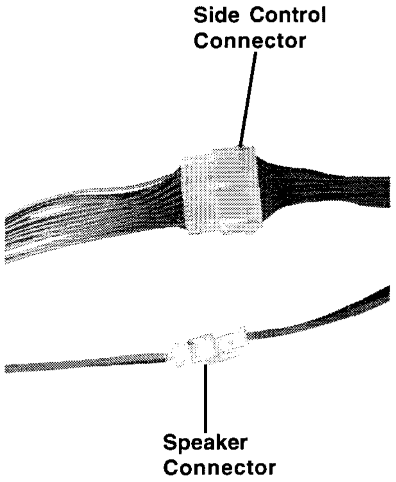
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



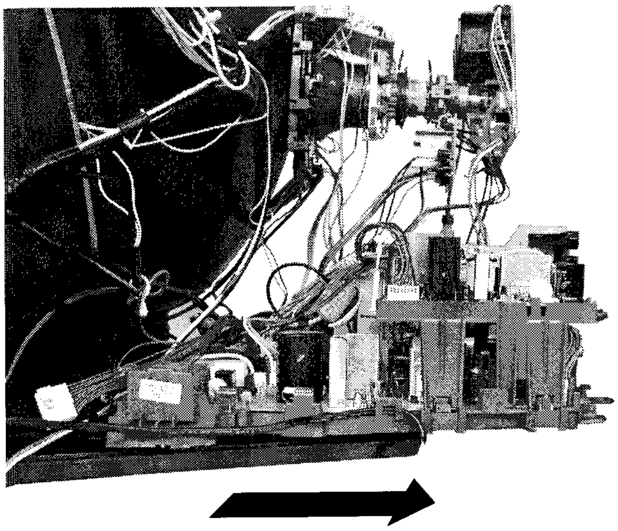
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set. Take care when removing the rear cover not to damage the side control and speaker cables, [disconnect the side control and speaker connectors]. The side control and speaker is fitted inside the rear cover.

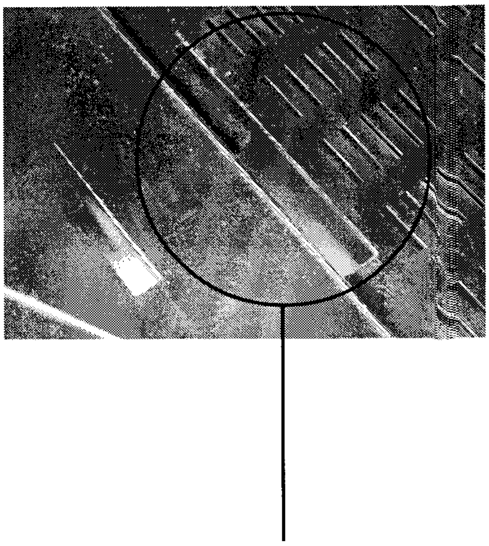
2-2. Side Control and Speaker Disconnection



Before completely removing the rear cover disconnect the side control connector and speaker connector which is located on the inside of the set.

2-3. Chassis Removal and Refitting

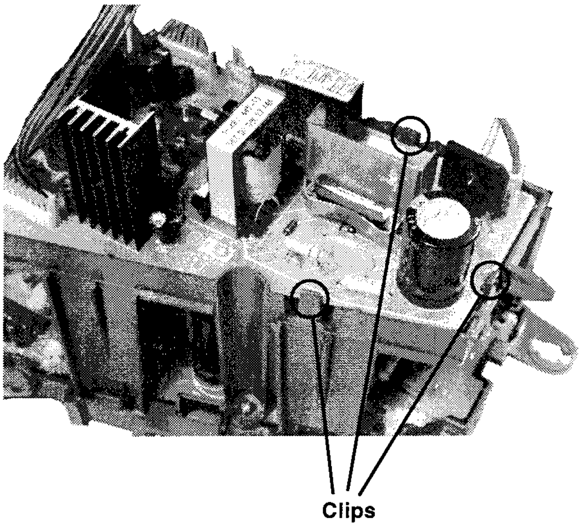




To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.

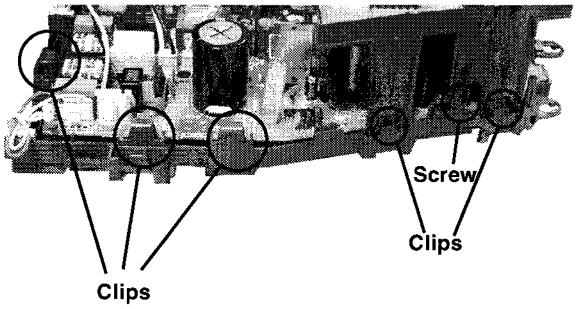
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. G1 Board Removal



To remove the G1 board release the three clips circled and ease the board gently away from the support bracket.

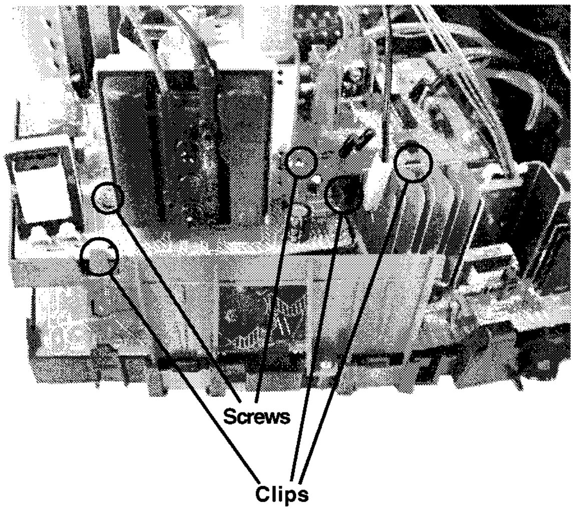
2-5. G Board Removal



To remove the G Board first remove the G1 bracket by removing the screw circled and releasing the four clips (two on each side of the bracket).

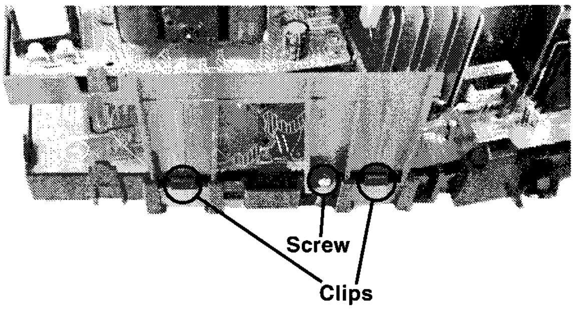
The G Board can then be removed by releasing the clips circled and easing the board gently away from the support bracket.

2-6. D2 Board Removal



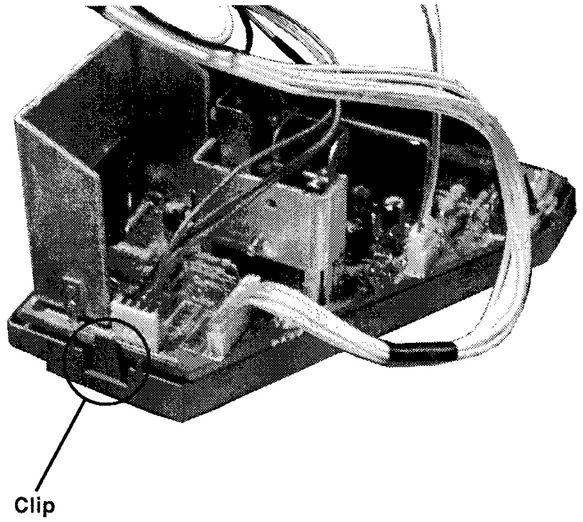
To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D1 Board Removal



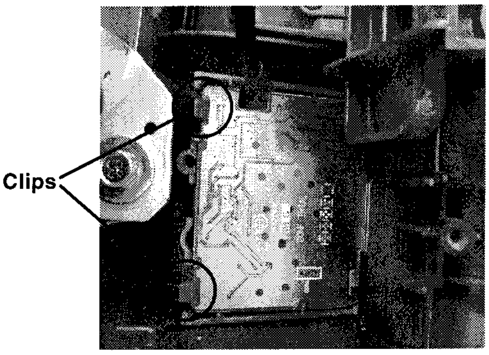
To remove the D1 board first remove the D2 bracket by removing the two screws (one on each side of the bracket) and releasing the four clips (two on each side of the bracket). The D1 board can then be removed using the same method as the G board.

2-8. SF Board Removal



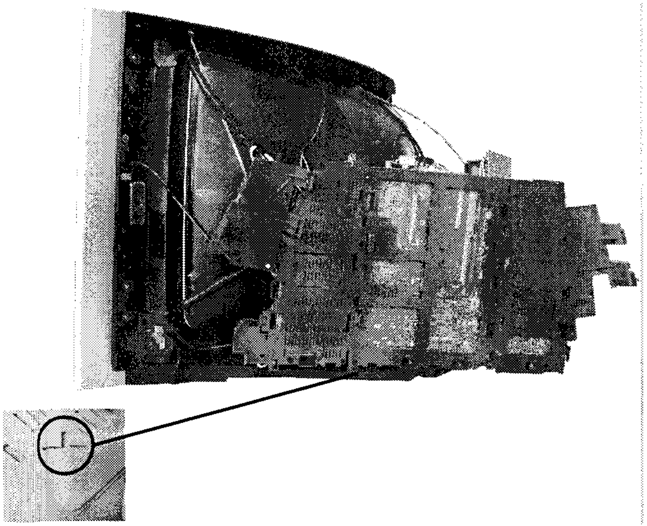
To remove the SF board release the clip circled and ease the board gently away from the support bracket.

2-9. MS3 Board Removal



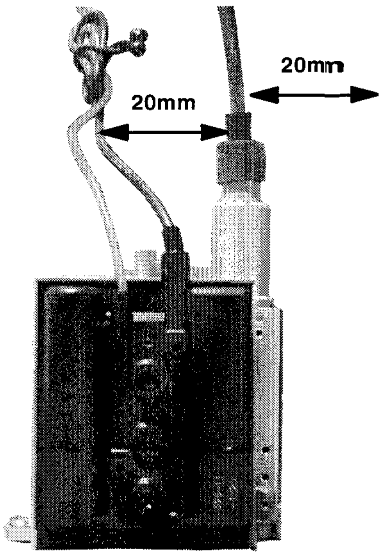
To remove the MS3 board release the two clips circled and ease the board gently away from the support bracket.

2-10. Service Position



To place the chassis in the service position, remove the SF and MS3 boards from their brackets (see 2-8 and 2-9.), remove the G1 and D2 brackets and position on the side of the main bracket as shown above. Insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 21. [Removal and Replacement of the main bracket bottom plates].

2-11. Wire Dressing

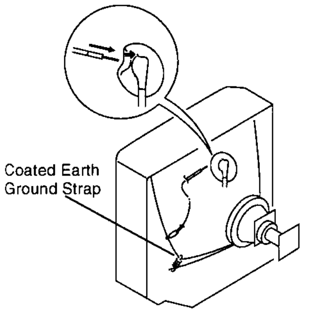


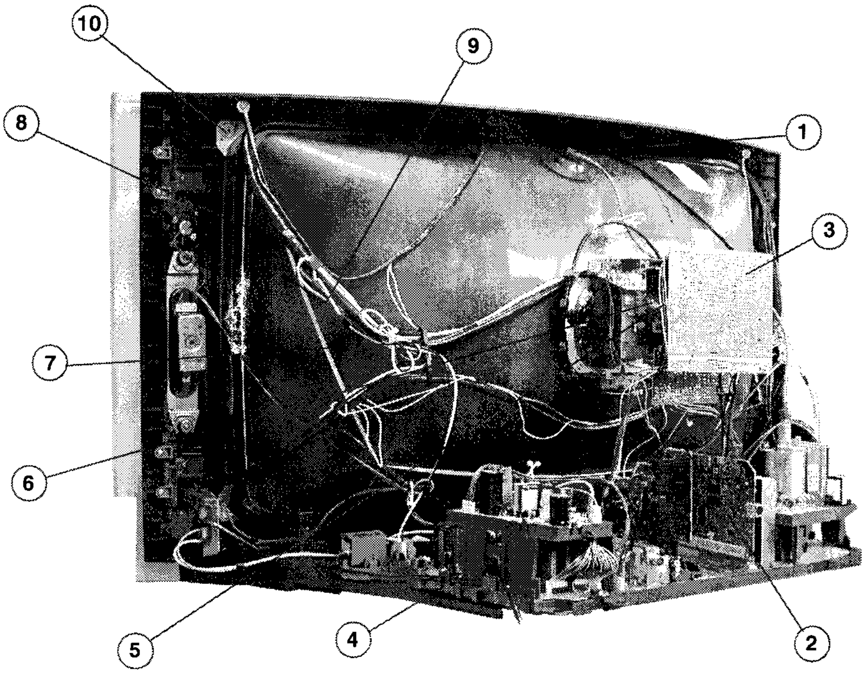
Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

2-12. Picture Tube Removal

**WARNING:
BEFORE REMOVING
THE ANODE CAP**

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

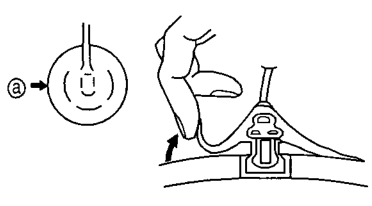




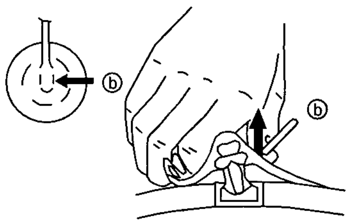
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C2 Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tensioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

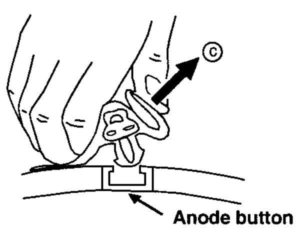
REMOVAL PROCEDURE.



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



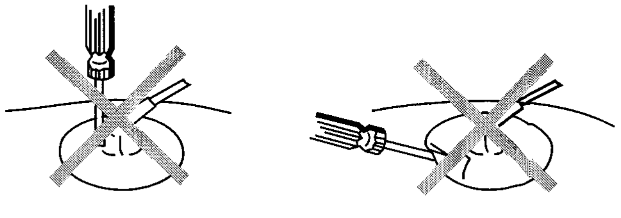
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.



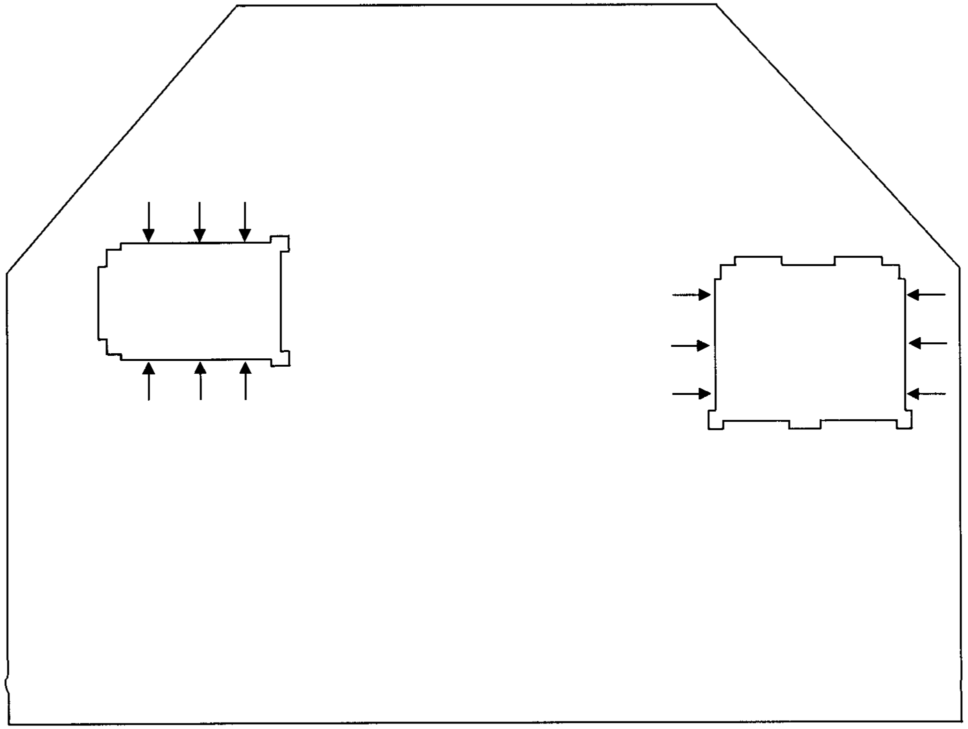
REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET

BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 2 plates fitted to the main bracket.
Only remove the necessary plate to gain access to the printed wiring board.

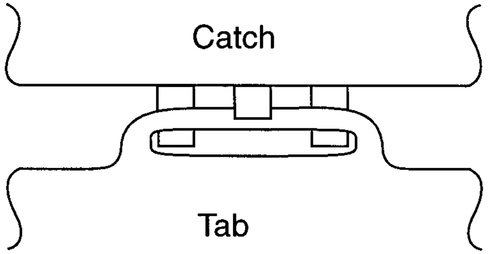


⚠ **For safety reasons, on no account should the plates be removed and not refitted after servicing.**

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast .... normal

Brightness .... normal

Carry out the adjustments in the following order :

3-1. Beam Landing and Geometry.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.
5. TT Commander

3-1. Beam Landing

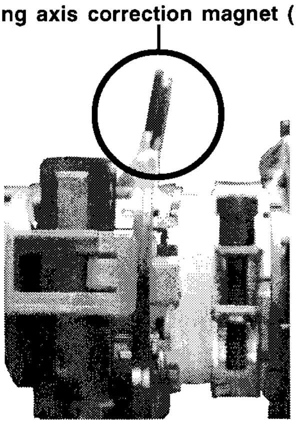
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-3.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. **KV-36HQ100**
   Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-1]
   KV-32HQ100
   Enter the Deflection Service Menu as shown on page 30 and adjust VPIN_32.
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1


Y-splitting axis correction magnet (KV-36HQ100)

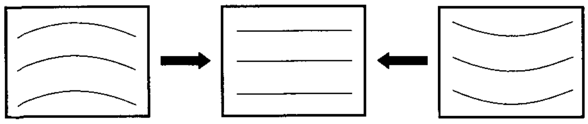


Fig.3-2

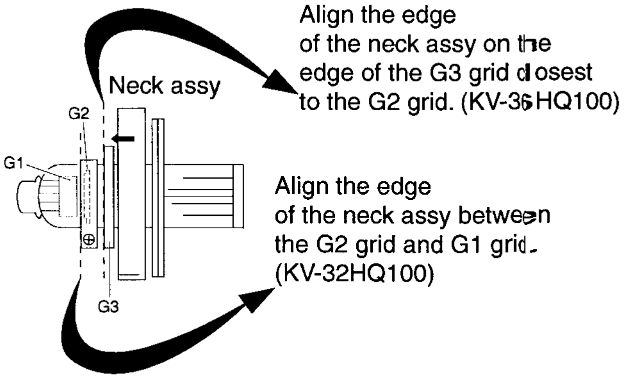
Caution :
High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing and Geometry

Note : Before carrying out the following adjustments adjust the magnets as indicated on page 23 [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position].
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Once dy rotation and swing left and right for h linearity is ok on cross hatch pattern, insert dy wedges. [See Fig.3-6].
11. Switch the pattern generator to green then blue and confirm the purity.
12. If the beam does not land correctly in all the corners of the screen, use SFC correction. (See Page 23)

Fig.3-3



Align the edge of the neck assy on the edge of the G3 grid closest to the G2 grid. (KV-36HQ100)

Align the edge of the neck assy between the G2 grid and G1 grid. (KV-32HQ100)

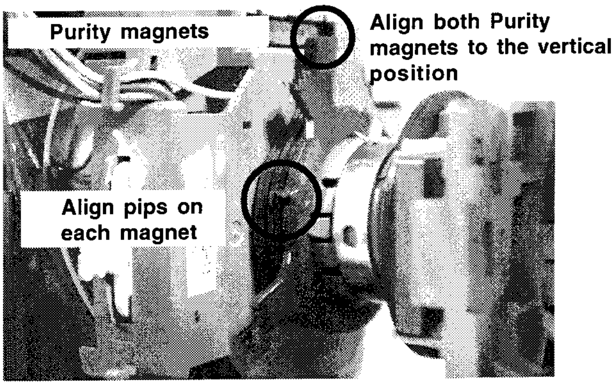

Purity magnets
Align both Purity magnets to the vertical position
Align pips on each magnet

Fig.3-4

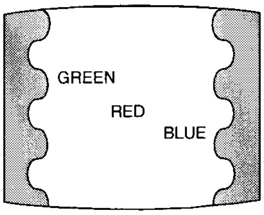

GREEN
RED
BLUE

Fig.3-5

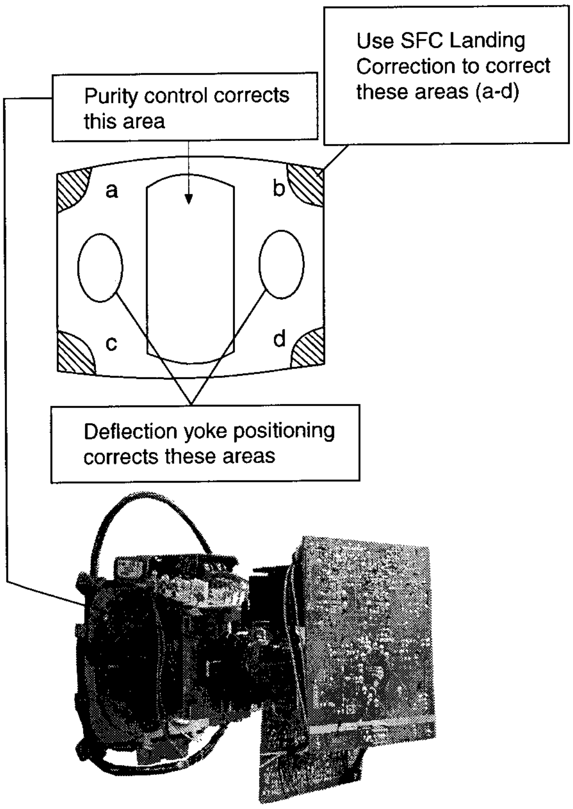
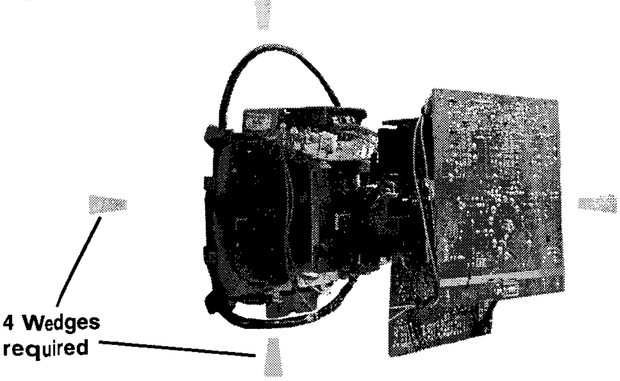
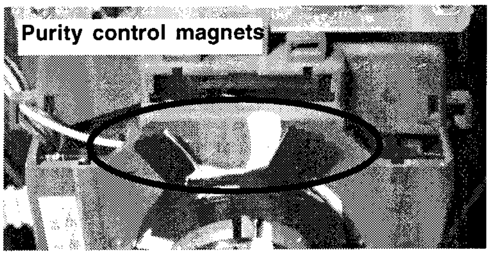

Use SFC Landing Correction to correct these areas (a-d)
Purity control corrects this area
a
b
c
d
Deflection yoke positioning corrects these areas

Fig.3-6

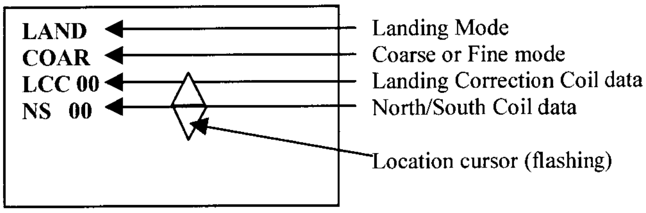

4 Wedges required

Note A new DY spacer was used during manufacture of KV-36HQ100. If the DY is changed then the spacers on the CRT funnel can be used. If the CRT is changed then use standard DY spacer.


Purity control magnets

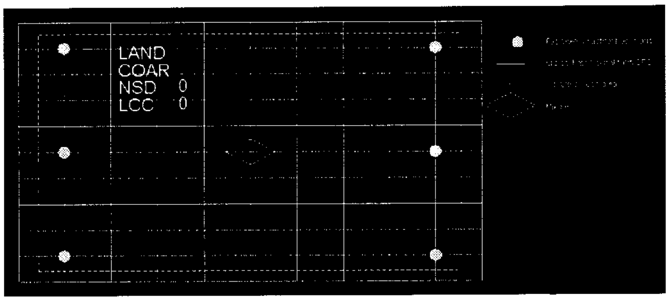
3-2. SFC Landing Correction

1. Use TT Commander to Obtain TT55
2. SFC Menu & Crosshatch pattern will appear. Press button'2' to toggle to Landing mode. Menu will appear as;


LAND
COAR
LCC 00
NS 00
Landing Mode
Coarse or Fine mode
Landing Correction Coil data
North/South Coil data
Location cursor (flashing)

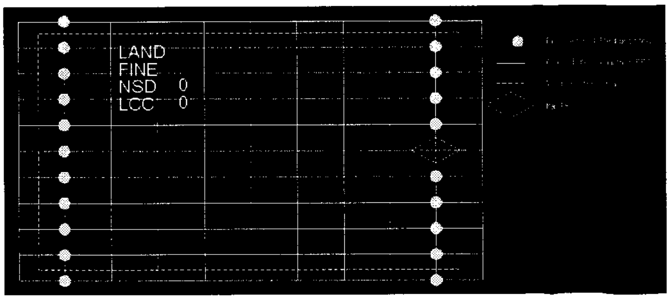
3. To adjust Landing, Choose Coarse or Fine mode by toggling button '9'.

COARSE MODE ADJUSTABLE LOCATION


LAND
COAR
NSD 0
LCC 0

*In Coarse Mode, all data will change equally for that particular side.

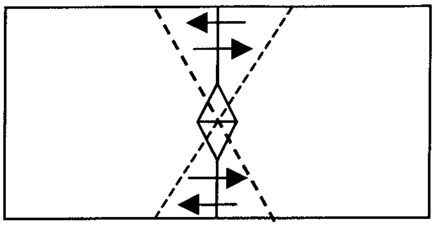
FINE MODE ADJUSTABLE LOCATION


LAND
FINE
NSD 0
LCC 0

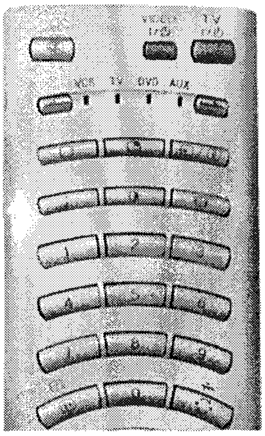
*In Fine Mode, data will change for that position only.

4. Use commander arrows to move flashing location cursor to required position for adjustment.
5. Choose required location by using arrow up, down, right, left on commander to move location cursor. (Cursor will start in centre position)
6. Edge locations only will adjust LCC coil data.
7. Centre point will adjust NS coil data. (To obtain centre position, choose COARSE mode, move cursor to +ve or-ve x-axis and press left or right once.

N-S Coil Effect



8. Once location is chosen, press 'OK' once, colour raster will appear, flashing cursor will disappear. Press Text colour keys (R,G,B,(Y=White)) to choose preferred raster colour. Use commander arrow keys left & right to change LCC or NS coil data in required mode. Once mis-landing has disappeared, press 'OK once again. This will bring back SFC cross hatch pattern.
9. If required, re-select another location for adjustment and repeat steps 5) to 8).
10. Once all adjustment is complete, press 'Mute' key to Exit SFC Test mode.



① Change Adjust Point

② Toggle Landing <> Convergence

④ Reverse the adjustment point

⑥ Video 5 <> Video 4

⑨ Coarse <> Fine

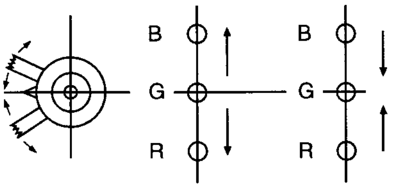
🔇 Exit SFC Test Mode

3-3. Convergence

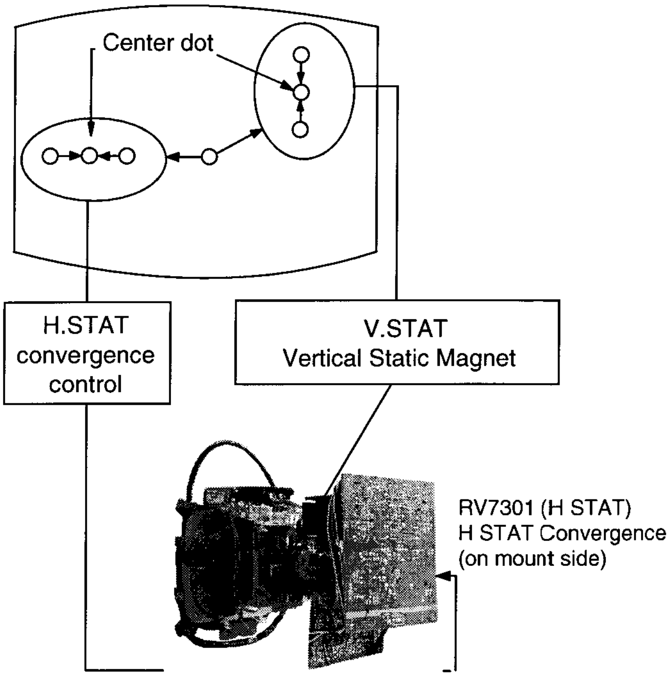
Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.

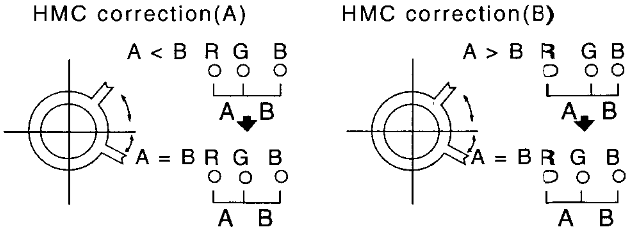


Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

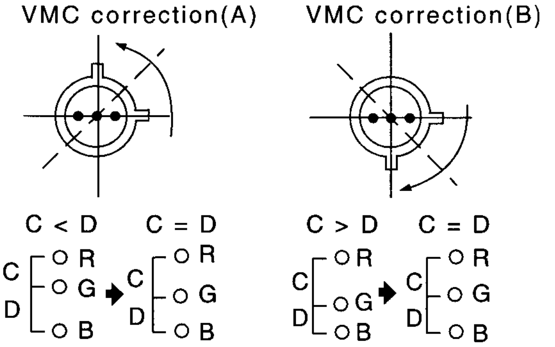

Center dot
H.STAT convergence control
V.STAT Vertical Static Magnet
RV7301 (H STAT)
H STAT Convergence
(on mount side)

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.


HMC correction(A)
A < B R G B
A B
A = B R G B
A B
HMC correction(B)
A > B R G B
A B
A = B R G B
A B

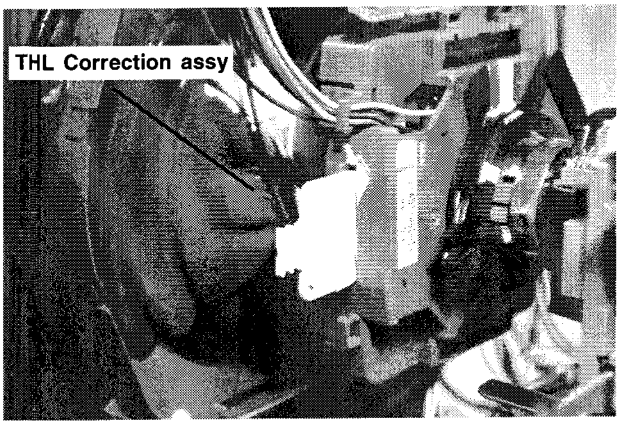
b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.


VMC correction(A)
C < D
C = D
C D R G B
C D R G B
VMC correction(B)
C > D
C = D
C D R G B
C D R G B

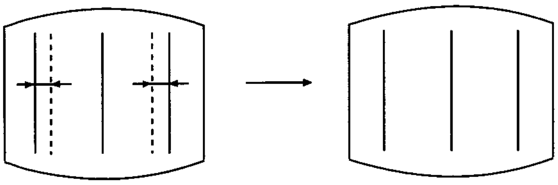
5. **(KV-36HQ100)**

When centre convergence adjustment is correct, use SFC Convergence Correction for other areas of the screen (See page 25).

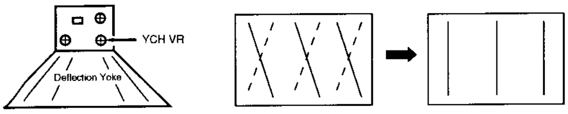
TLH Adjustment (KV-32HQ100)


THL Correction assy

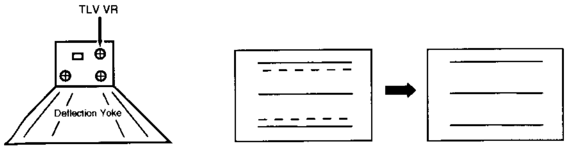
TLH correction can be performed by adding a THL correction assembly to the Deflection yoke.



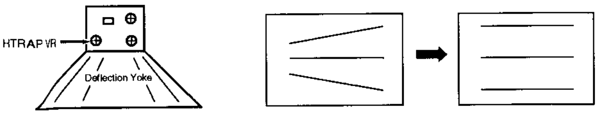
YCH Adjustment (KV-32HQ100)


YCH VR
Deflection Yoke

TLV Adjustment (KV-32HQ100)


TLV VR
Deflection Yoke

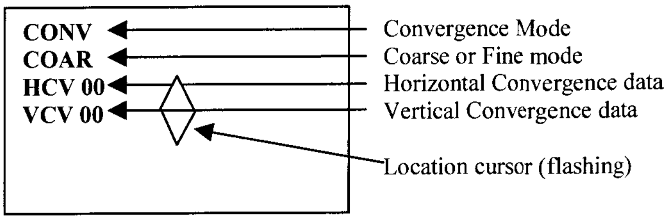
H-TRAP Adjustment (KV-32HQ100)


HTRAP VR
Deflection Yoke

The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

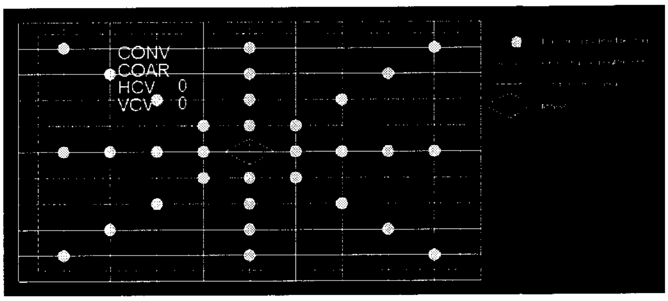
3-4. SFC Convergence Correction (KV-36HQ100)

1. Use TT Commander to Obtain TT55
2. SFC Menu & Crosshatch pattern will appear. Press button'2' to toggle to Convergence mode. Menu will appear as;


CONV
COAR
HCV 00
VCV 00
Convergence Mode
Coarse or Fine mode
Horizontal Convergence data
Vertical Convergence data
Location cursor (flashing)

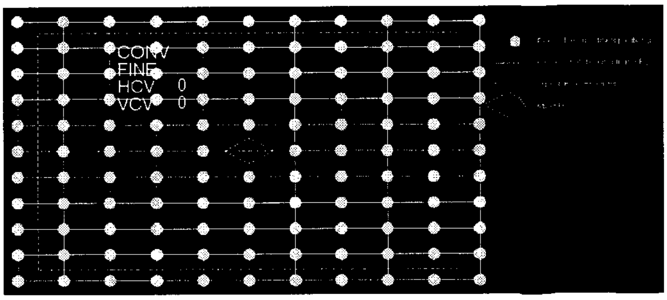
3. To adjust Convergence, choose Coarse or Fine mode by toggling button '9'.

COARSE MODE ADJUSTABLE LOCATION


CONV
COAR
HCV 0
VCV 0

*In Coarse Mode, all data will change equally for that particular column area.

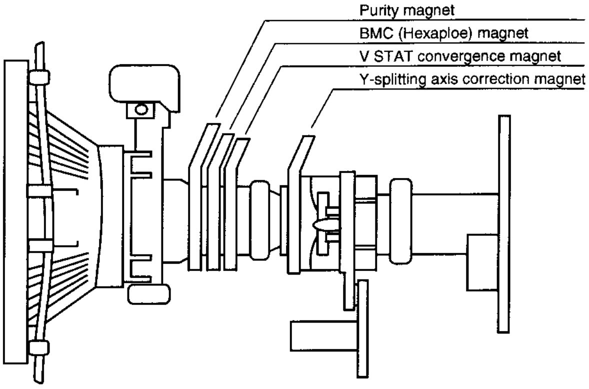
FINE MODE ADJUSTABLE LOCATION


CONV
FINE
HCV 0
VCV 0

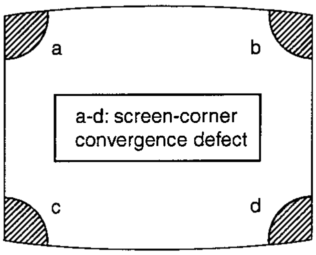
*In Fine Mode, data will change for that position only.

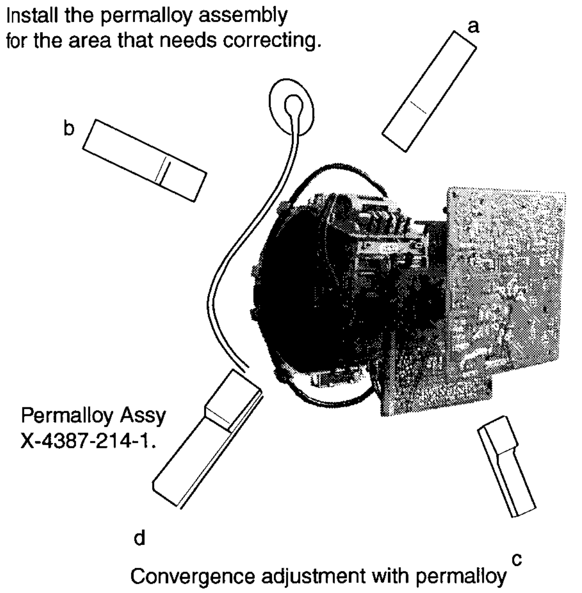
4. Use commander arrows to move flashing location cursor to required position for adjustment.
5. Choose required location by using arrow up, down, right, left on commander to move location cursor. (Cursor will start in centre position)
6. Once location is chosen, press 'OK' once, cross hatch pattern will remain and HCV and VCV will be adjustable, location cursor will not flash.
7. Toggle commander arrows left and right to adjust HCV, up and down arrows to adjust VCV. Text colour buttons can be pressed to check each colour if necessary. If mis-convergence has disappeared, press 'OK' once more, cursor will start to flash.
8. If required, re-select another location for adjustment and repeat steps 5) to 7).
9. Once all adjustment is complete, press 'Mute' key to Exit SFC Test mode.

Layout of each control



Note : On KV-32HQ100 if you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.

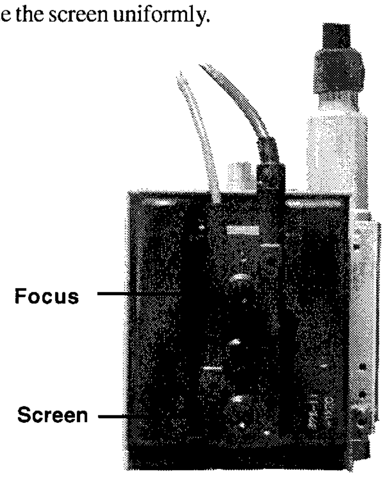



Install the permalloy assembly for the area that needs correcting.

Convergence adjustment with permalloy

3-5. Focus Adjustment

1. Receive a cross hatch pattern from a video generator.
2. Adjust the focus control located on the flyback transformer to the best level at the centre of the screen.
3. Check left and right x-axis vertical line thickness and adjust to make them as thin as possible.
4. Considering x-axis and centre, adjust to make uniform.
5. If no cross hatch signal is possible, follow the next three steps.
6. Receive a television broadcast signal.
7. Normalize the picture setting.
8. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-6. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 169V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

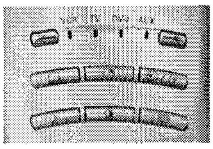
1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 27].
3. Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Device Register Setting' from the on screen menu display and press 'Right Arrow'.
5. Select 'Backend' from the on screen menu display and press 'Right Arrow'.
6. Set the 'Contrast' to MAX.
7. Set the 'R-Drive' to 45.
8. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
9. Press the 'OK' button to write the data for each item.
10. Set the 'Contrast' to MIN.
11. Set the 'R-Cutoff' to 35.
12. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-940.

Programming the Remote Commander for Operation in Service Mode



1. Press and hold the left Mode Select button until the VCR and DVD LED's flash.
2. Press 99999. The TV LED should light. The remote commander is now set to Service Mode.
3. To return the remote commander to normal operation mode repeat step 1. then press 00000. The TV LED should light. The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the video standby button on the remote commander twice. 'TT__' will appear in the upper right corner of the screen. Other status information will also be displayed.
4. Press 'MENU' on the remote commander twice to obtain the following menu on the screen.

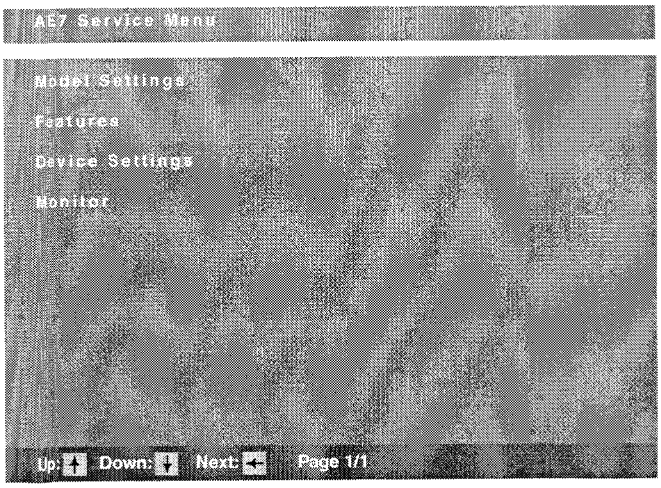


Table.4-1

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

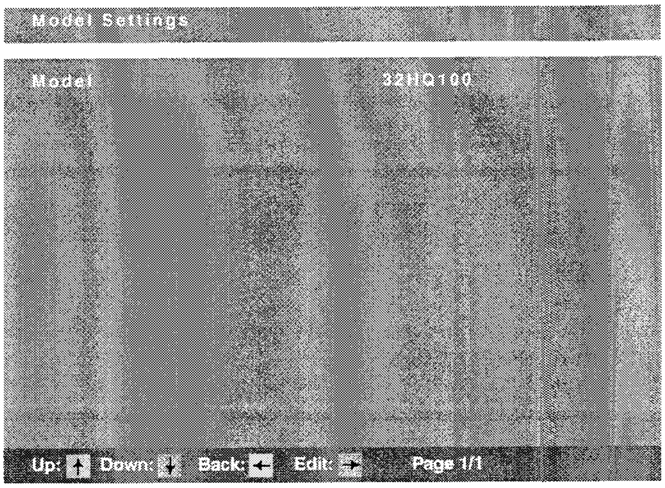
Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.
- Certain menu items are only available in production mode.

Model Settings

'Model Settings' is a sub menu of the 'Service Menu'.
This menu stores a list of models that are supported by the chassis. Press the cursor right key to move to the model selection then press the cursor up or down keys to scroll through the models available. Press the OK key to select the model highlighted by the cursor.

The model setting is stored in flash and is used by the software for model dependent features or parameters to be available.
The cursor left key will return to 'Service Menu'.

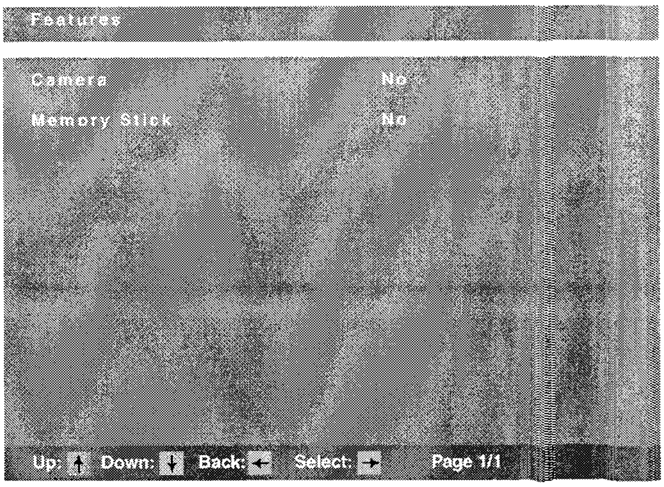


Model 32HQ100

Table.4-2

Features

'Features' is a sub menu of the 'Service Menu'.
This menu is used to set up the digital camera and memory stick for those models which have this accessory and functions.
Press the cursor right key to move to the selection field then press the cursor up or down keys to scroll to Yes or No. Press the OK key to select the required option.
The cursor left key will return to 'Service Menu'.

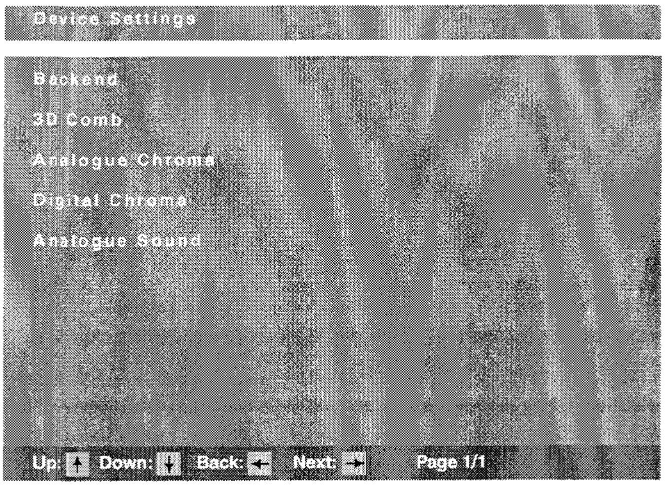


Camera No
Memory Stick No

Table.4-3

Device Settings

'Device Settings' is a sub menu of the 'Service Menu'.
This menu displays a list of I2C devices that are used in the chassis. Pressing the cursor up & down keys will scroll through the options available.
The cursor left key will return to 'Service Menu'.



Device Settings

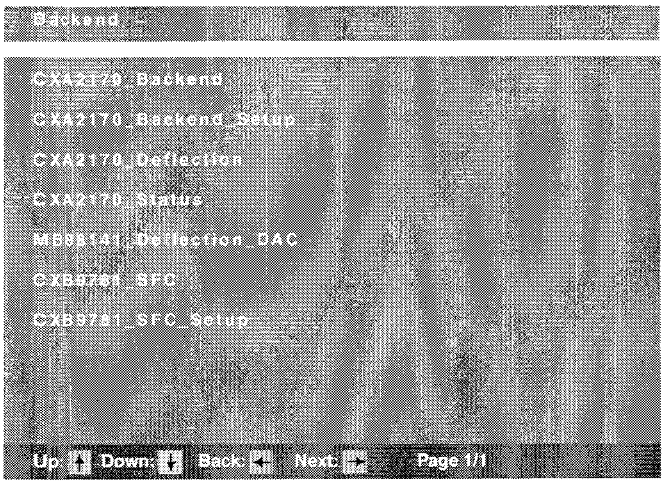
Backend
3D Comb
Analogue Chroma
Digital Chroma
Analogue Sound

Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-4

The following are examples of the menus and submenus within the Device Settings Menu.

Backend



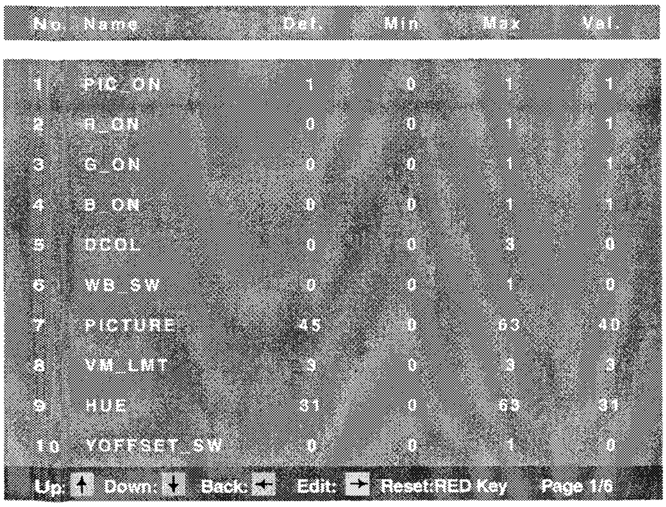
Backend

CXA2170_Backend
CXA2170_Backend_Setup
CXA2170_Deflection
CXA2170_Status
MB88141_Deflection_DAC
CXB9781_SFC
CXB9781_SFC_Setup

Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-5

CXA2170_Backend

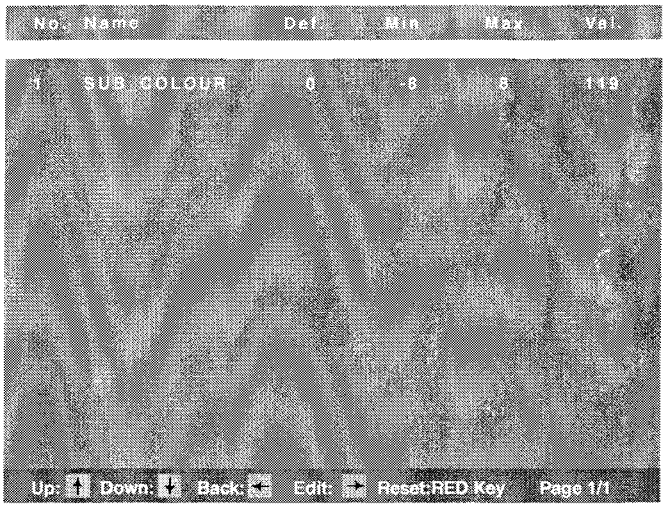


No.	Name	Def.	Min	Max	Val.
1	PIC_ON	1	0	1	1
2	R_ON	0	0	1	1
3	G_ON	0	0	1	1
4	B_ON	0	0	1	1
5	DCOL	0	0	3	0
6	WB_SW	0	0	1	0
7	PICTURE	45	0	63	40
8	VM_LMT	3	0	3	3
9	HUE	31	0	63	31
10	YOFFSET_SW	0	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/6

Table.4-6

CXA2170_Backend_Setup

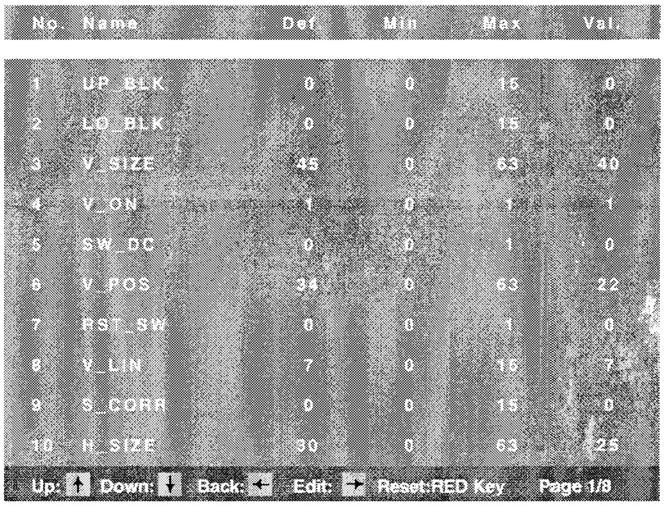


No.	Name	Def.	Min	Max	Val.
1	SUB_COLOUR	0	-8	8	119

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

Table.4-7

CXA2170_Deflection

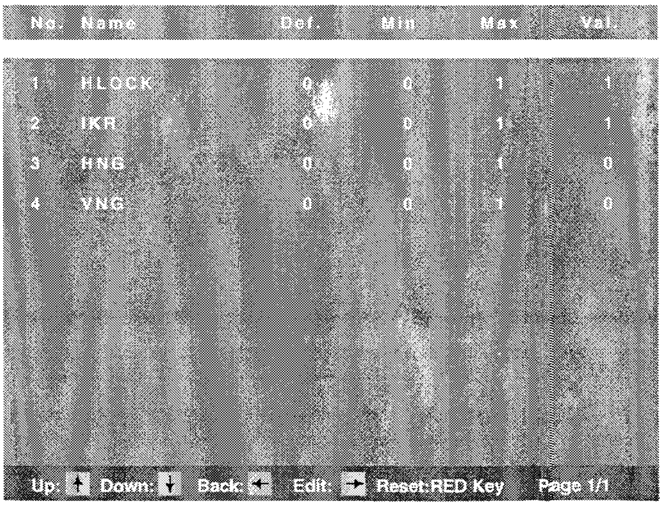


No.	Name	Def.	Min	Max	Val.
1	UP_BLK	0	0	15	0
2	LO_BLK	0	0	15	0
3	V_SIZE	45	0	63	40
4	V_ON	1	0	1	1
5	SW_DC	0	0	1	0
6	V_POS	34	0	63	22
7	RST_SW	0	0	1	0
8	V_LIN	7	0	16	7
9	S_CORR	0	0	15	0
10	H_SIZE	30	0	63	25

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/8

Table.4-8

CXA2170_Status

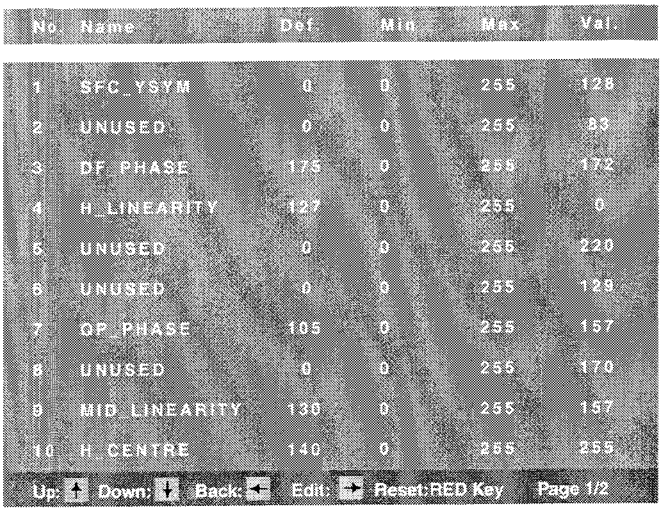


No.	Name	Def.	Min	Max	Val.
1	HLOCK	0	0	1	1
2	IKR	0	0	1	1
3	HNG	0	0	1	0
4	VNG	0	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

Table.4-9

MB88141_Deflection_DAC

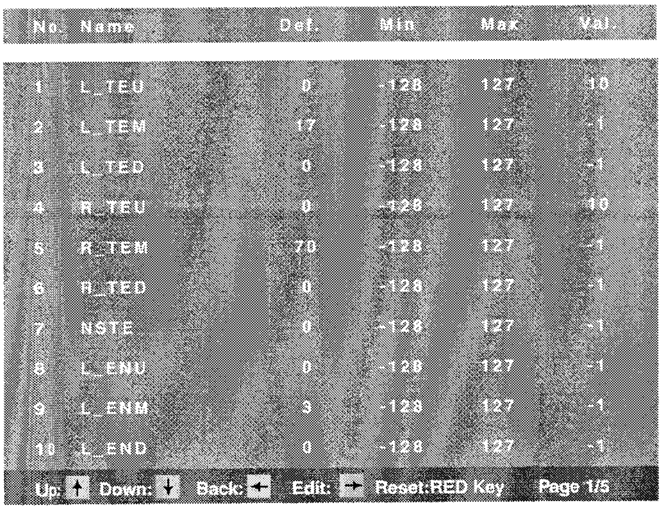


No.	Name	Def.	Min	Max	Val.
1	SFC_YSYM	0	0	255	128
2	UNUSED	0	0	255	83
3	DF_PHASE	175	0	255	172
4	H_LINEARITY	127	0	255	0
5	UNUSED	0	0	255	220
6	UNUSED	0	0	255	129
7	QP_PHASE	105	0	255	157
8	UNUSED	0	0	255	170
9	MID_LINEARITY	130	0	255	157
10	H_CENTRE	140	0	255	255

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/2

Table.4-10

CXD9761_SFC

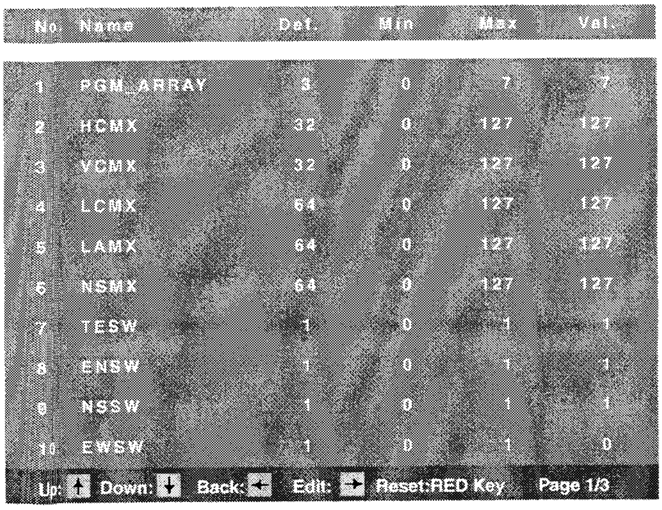


No.	Name	Def.	Min	Max	Val.
1	L_TEU	0	-128	127	10
2	L_TEM	17	-128	127	-1
3	L_TED	0	-128	127	-1
4	R_TEU	0	-128	127	10
5	R_TEM	70	-128	127	-1
6	R_TED	0	-128	127	-1
7	NSTE	0	-128	127	-1
8	L_ENU	0	-128	127	-1
9	L_ENM	3	-128	127	-1
10	L_END	0	-128	127	-1

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/5

Table.4-11

CXD9761_SFC_Setup

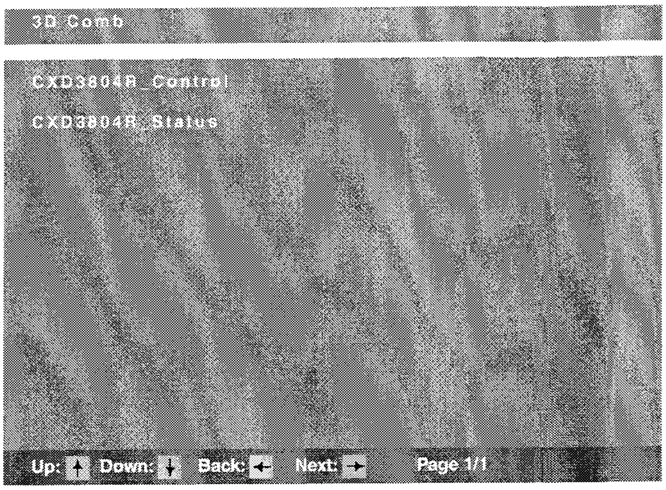


No.	Name	Def.	Min	Max	Val.
1	PGM_ARRAY	3	0	7	7
2	HCMX	32	0	127	127
3	VCMX	32	0	127	127
4	LCMX	64	0	127	127
5	LAMX	64	0	127	127
6	NSMX	64	0	127	127
7	TESW	1	0	1	1
8	ENSW	1	0	1	1
9	NSSW	1	0	1	1
10	EWSW	1	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/3

Table.4-12

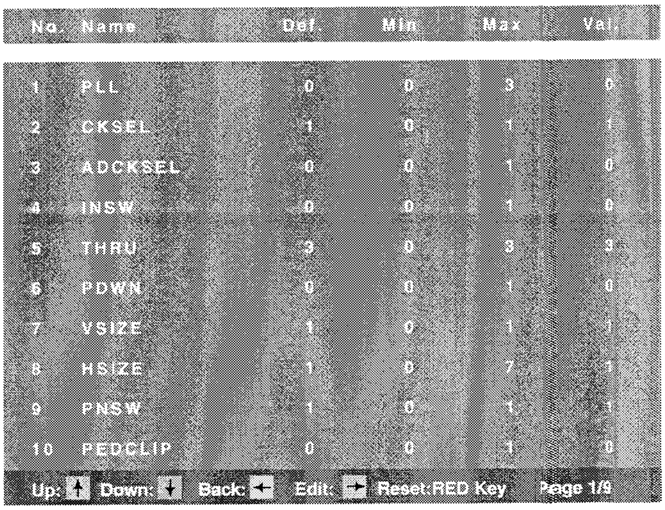
3D Comb



3D Comb
CXD3804R_Control
CXD3804R_Status
Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-13

CXD3804R_Control

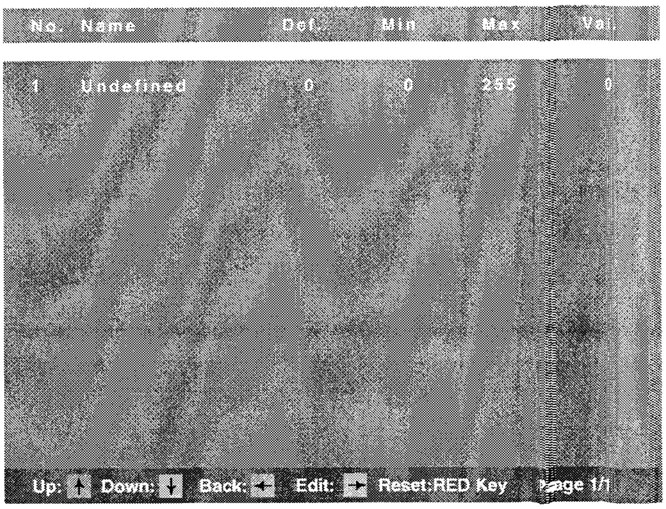


No.	Name	Def.	Min	Max	Val.
1	PLL	0	0	3	0
2	CKSEL	1	0	1	1
3	ADCKSEL	0	0	1	0
4	INSW	0	0	1	0
5	THRU	3	0	3	3
6	PDWN	0	0	1	0
7	VSIZE	1	0	1	1
8	HSIZE	1	0	7	1
9	PNSW	1	0	1	1
10	PEDCLIP	0	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/9

Table.4-14

CXD3804R_Status

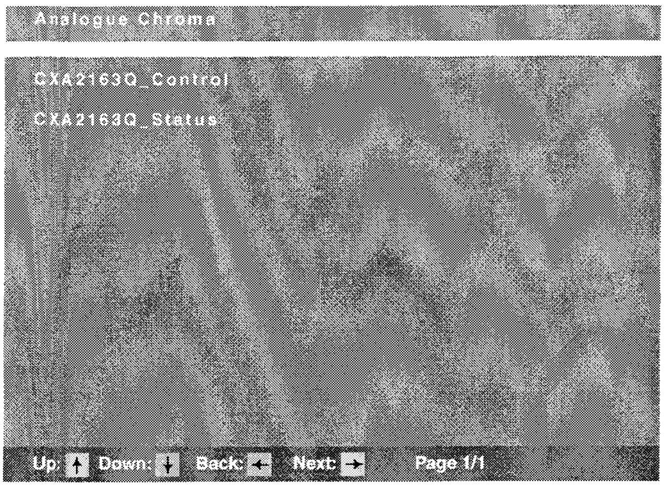


No.	Name	Def.	Min	Max	Val.
1	Undefined	0	0	255	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

Table.4-15

Analogue Chroma


Analogue Chroma

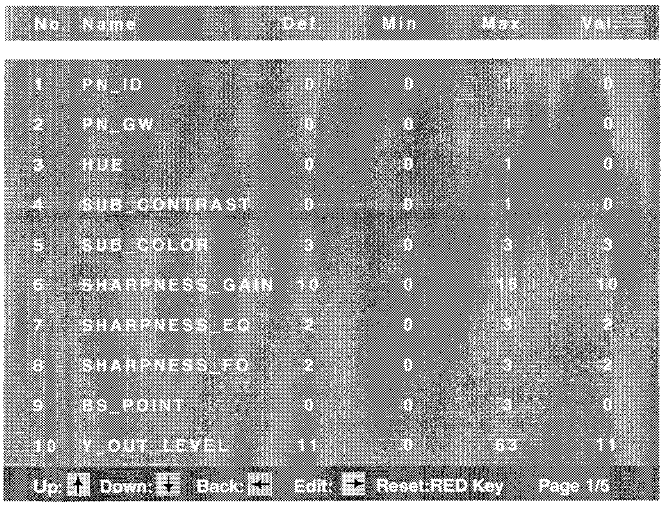
CXA2163Q_Control

CXA2163Q_Status

Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-16

CXA2163Q_Control

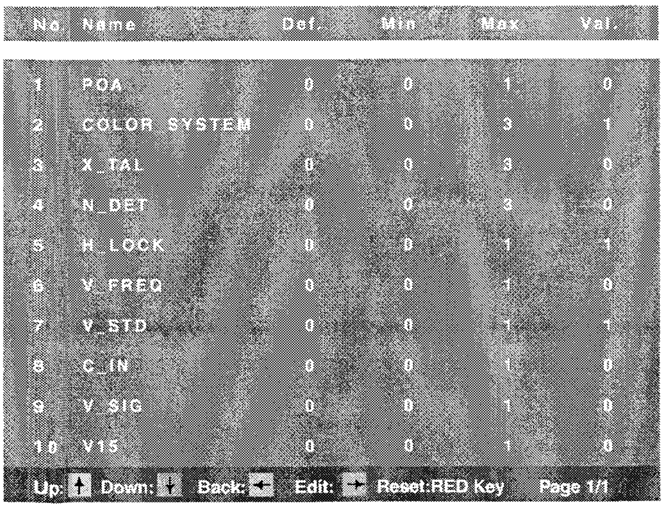


No.	Name	Def.	Min	Max	Val.
1	PN_ID	0	0	1	0
2	PN_GW	0	0	1	0
3	HUE	0	0	1	0
4	SUB_CONTRAST	0	0	1	0
5	SUB_COLOR	3	0	3	3
6	SHARPNESS_GAIN	10	0	15	10
7	SHARPNESS_EQ	2	0	3	2
8	SHARPNESS_FO	2	0	3	2
9	BS_POINT	0	0	3	0
10	Y_OUT_LEVEL	11	0	63	11

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/5

Table.4-17

CXA2163Q_Status

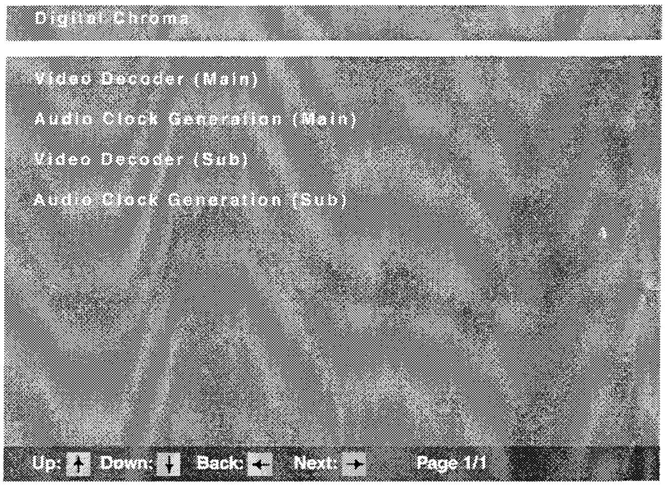


No.	Name	Def.	Min	Max	Val.
1	POA	0	0	1	0
2	COLOR_SYSTEM	0	0	3	1
3	X_TAL	0	0	3	0
4	N_DET	0	0	3	0
5	H_LOCK	0	0	1	1
6	V_FREQ	0	0	1	0
7	V_STD	0	0	1	1
8	C_IN	0	0	1	0
9	V_SIG	0	0	1	0
10	V15	0	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

Table.4-18

Digital Chroma


Digital Chroma

Video Decoder (Main)

Audio Clock Generation (Main)

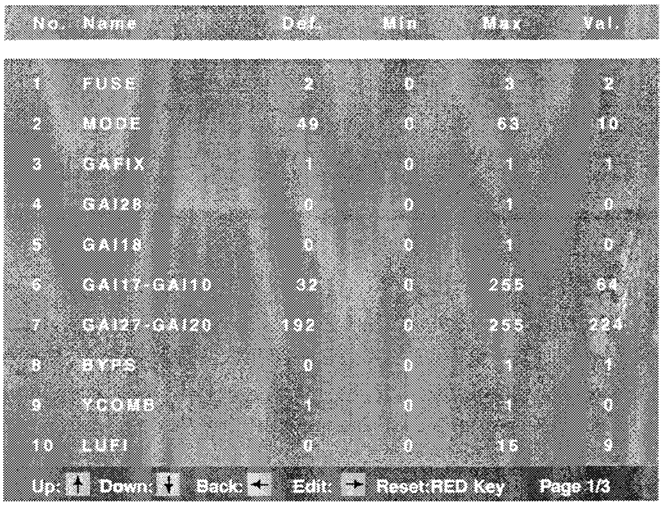
Video Decoder (Sub)

Audio Clock Generation (Sub)

Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-19

Video Decoder (Main)

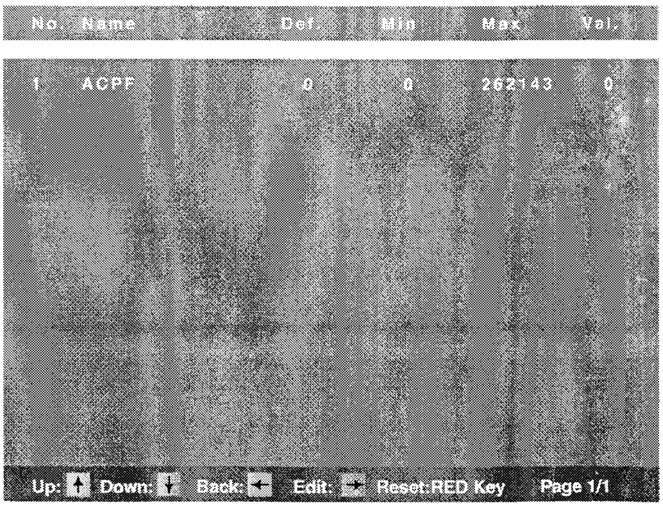


No.	Name	Def.	Min	Max	Val.
1	FUSE	2	0	3	2
2	MODE	49	0	63	10
3	GAFIX	1	0	1	1
4	GAI28	0	0	1	0
5	GAI18	0	0	1	0
6	GAI17-GAI10	32	0	255	64
7	GAI27-GAI20	192	0	255	224
8	BYPS	0	0	1	1
9	YCOMB	1	0	1	0
10	LUFI	0	0	15	9

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/3

Table.4-20

Audio Clock Generation (Main)

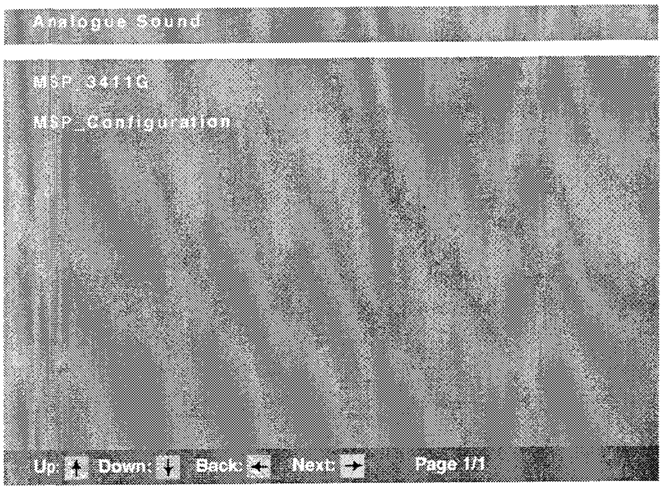


No.	Name	Def.	Min	Max	Val.
1	ACPF	0	0	262143	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

Table.4-21

Analogue Sound



Analogue Sound

MSP_3411G

MSP_Configuration

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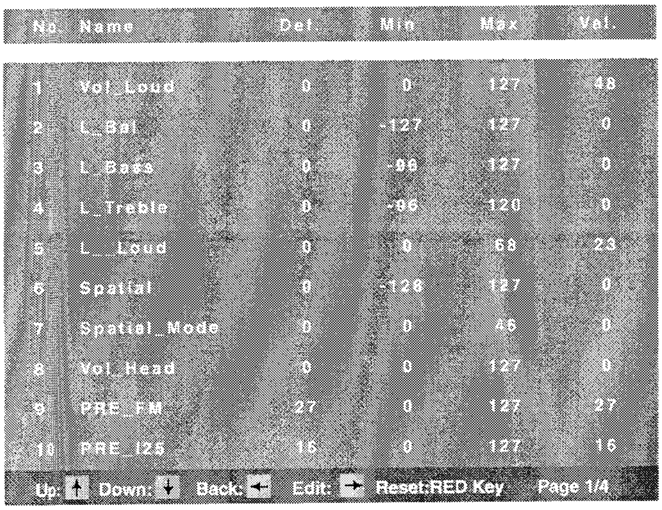
Table.4-22

MSP_3411G

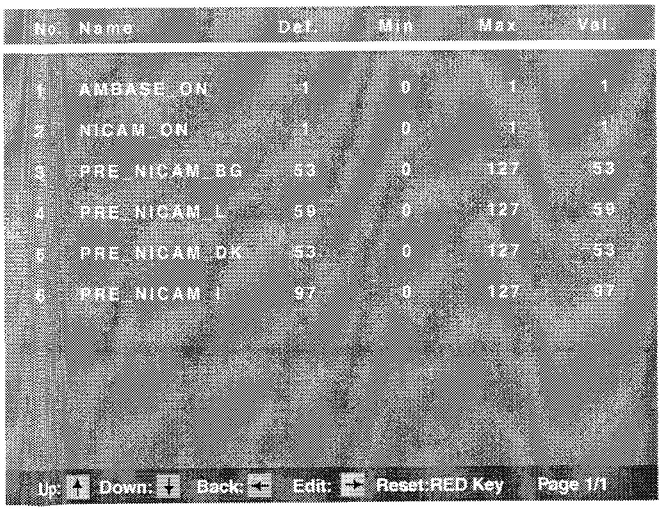


No.	Name	Def.	Min	Max	Val.
1	Vol_Loud	0	0	127	48
2	L_Bal	0	-127	127	0
3	L_Bass	0	-96	127	0
4	L_Treble	0	-96	120	0
5	L__Loud	0	0	68	23
6	Spatial	0	-128	127	0
7	Spatial_Mode	0	0	46	0
8	Vol_Head	0	0	127	0
9	PRE_FM	27	0	127	27
10	PRE_I25	16	0	127	16

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/4

Table.4-23

MSP_Configuration



No.	Name	Def.	Min	Max	Val.
1	AMBASE_ON	1	0	1	1
2	NICAM_ON	1	0	1	1
3	PRE_NICAM_BG	53	0	127	53
4	PRE_NICAM_L	59	0	127	59
5	PRE_NICAM_DK	53	0	127	53
6	PRE_NICAM_I	97	0	127	97

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/1

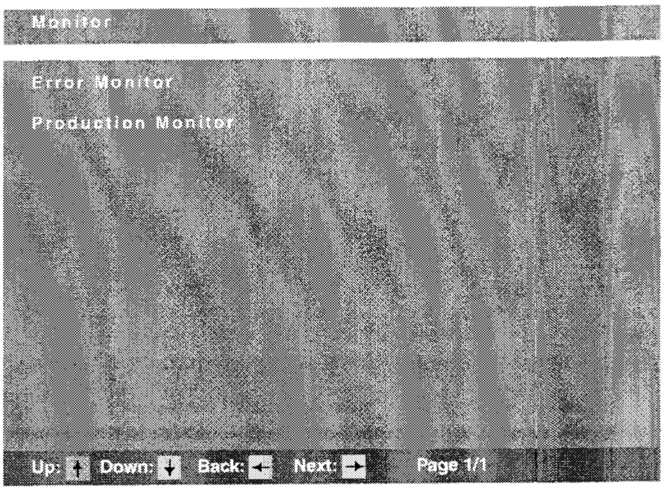
Table.4-24

Monitor

'Monitor' is a sub menu of 'Service Menu'.

Pressing the cursor up & down keys will scroll through the options available.

The cursor left key will return to 'Service Menu'.



Monitor

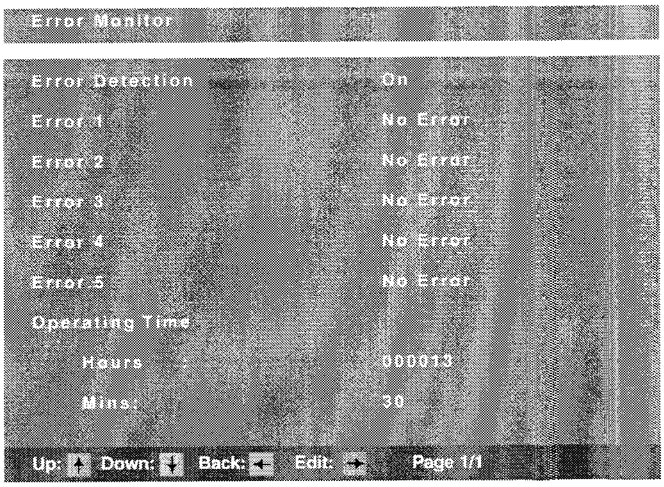
Error Monitor

Production Monitor

Up: ↑ Down: ↓ Back: ← Next: → Page 1/1

Table.4-25

Error Monitor



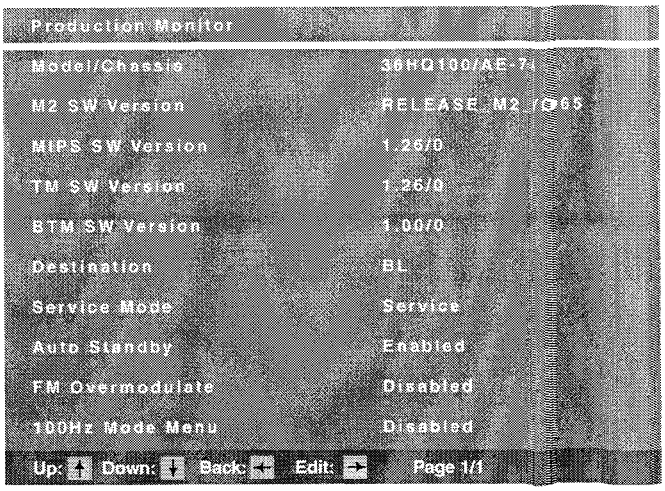
Error Monitor

Error Detection	On
Error 1	No Error
Error 2	No Error
Error 3	No Error
Error 4	No Error
Error 5	No Error
Operating Time	
Hours :	000013
Mins:	30

Up: ↑ Down: ↓ Back: ← Edit: → Page 1/1

Table.4-26

Production Monitor



Production Monitor

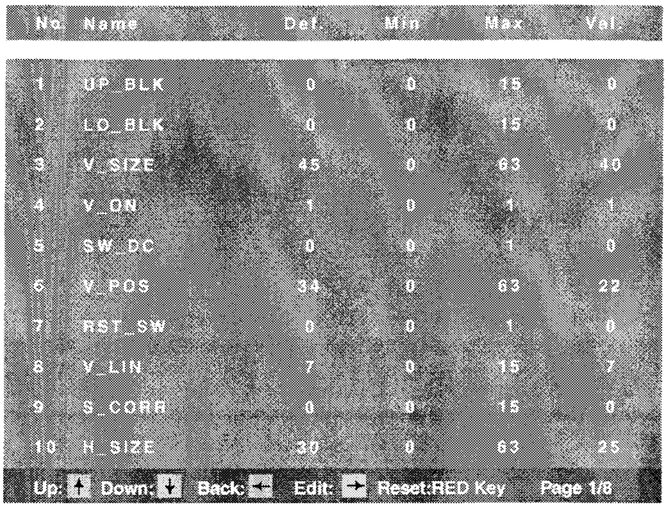
Model/Chassis	36HQ100/AE-7
M2 SW Version	RELEASE_M2_/065
MIPS SW Version	1.26/0
TM SW Version	1.26/0
BTM SW Version	1.00/0
Destination	BL
Service Mode	Service
Auto Standby	Enabled
FM Overmodulate	Disabled
100Hz Mode Menu	Disabled

Up: ↑ Down: ↓ Back: ← Edit: → Page 1/1

Table.4-27

Deflection System Adjustment

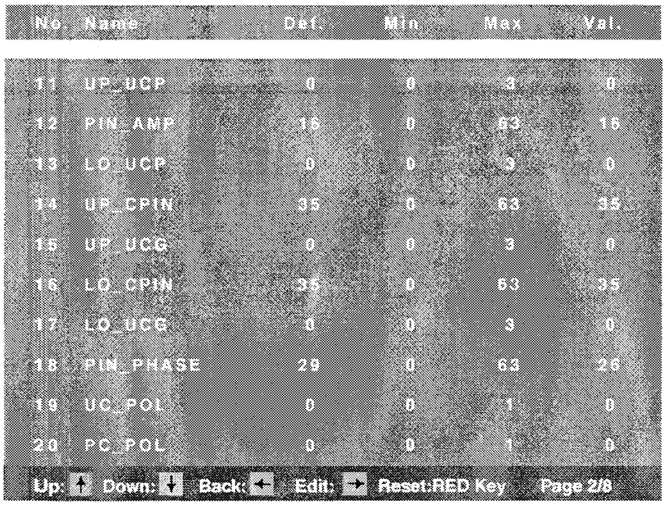
1. Enter into the service mode and select 'Device Settings' =>'Backend'=>'CXA2170_Deflection' from the menu. The 'Deflection' adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.



No.	Name	Def.	Min	Max	Val.
1	UP_BLK	0	0	15	0
2	LO_BLK	0	0	15	0
3	V_SIZE	45	0	63	40
4	V_ON	1	0	1	1
5	SW_DC	0	0	1	0
6	V_POS	34	0	63	22
7	RST_SW	0	0	1	0
8	V_LIN	7	0	15	7
9	S_CORR	0	0	15	0
10	H_SIZE	30	0	63	25

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 1/8

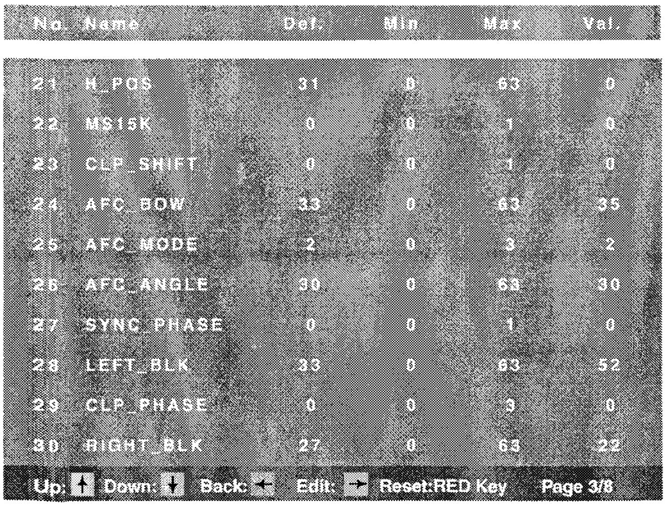
Table.4-28



No.	Name	Def.	Min	Max	Val.
11	UP_UCP	0	0	3	0
12	PIN_AMP	16	0	63	16
13	LO_UCP	0	0	3	0
14	UP_CPIN	35	0	63	35
15	UP_UCG	0	0	3	0
16	LO_CPIN	35	0	63	35
17	LO_UCG	0	0	3	0
18	PIN_PHASE	29	0	63	26
19	UC_POL	0	0	1	0
20	PC_POL	0	0	1	0

Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 2/8

Table.4-29



No.	Name	Def.	Min	Max	Val.
21	H_POS	31	0	63	0
22	MS15K	0	0	1	0
23	CLP_SHIFT	0	0	1	0
24	AFC_BOW	33	0	63	35
25	AFC_MODE	2	0	3	2
26	AFC_ANGLE	30	0	63	30
27	SYNC_PHASE	0	0	1	0
28	LEFT_BLK	33	0	63	52
29	CLP_PHASE	0	0	3	0
30	RIGHT_BLK	27	0	63	22

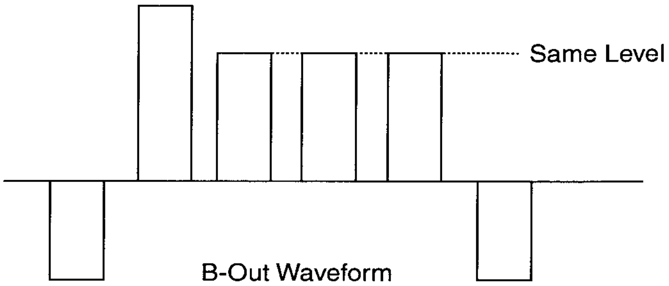
Up: ↑ Down: ↓ Back: ← Edit: → Reset:RED Key Page 3/8

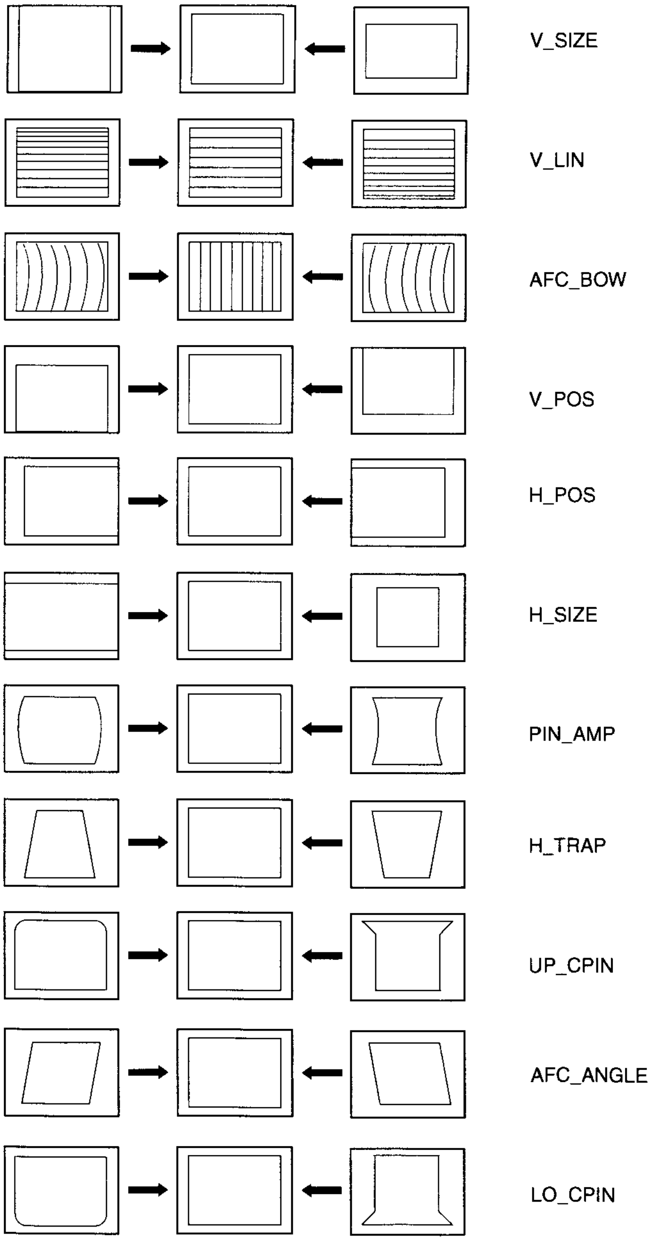
Table.4-30

4-2. Volume Electrical Adjustments

Sub Colour Adjustment

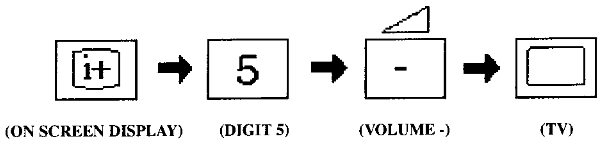
1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN7301 pin 5 located on the C2 Board.
3. Set the TV into 'Service Mode' (See page 27).
4. Choose 'Device Settings' > 'Backend' > 'CXA2170_Backend_Setup' from the menu.
5. Adjust 'SUB_ COLOUR' data so that the right sides of the waveform are of equal height.


Same Level
B-Out Waveform


V_SIZE
V_LIN
AFC_BOW
V_POS
H_POS
H_SIZE
PIN_AMP
H_TRAP
UP_CPIN
AFC_ANGLE
LO_CPIN

4-3. TEST MODE 2:

Is available by pressing the 'VIDEO' button twice, when the remote commander is set to 'Service Mode' (See Page 27), OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 0 twice, press the TV button or switch the TV set into Stand-by mode.
Pressing the two Local Control buttons (PROG + and -) during power ON will also switch into 'TT' mode. Also with the TV in standby mode use the following key sequence.

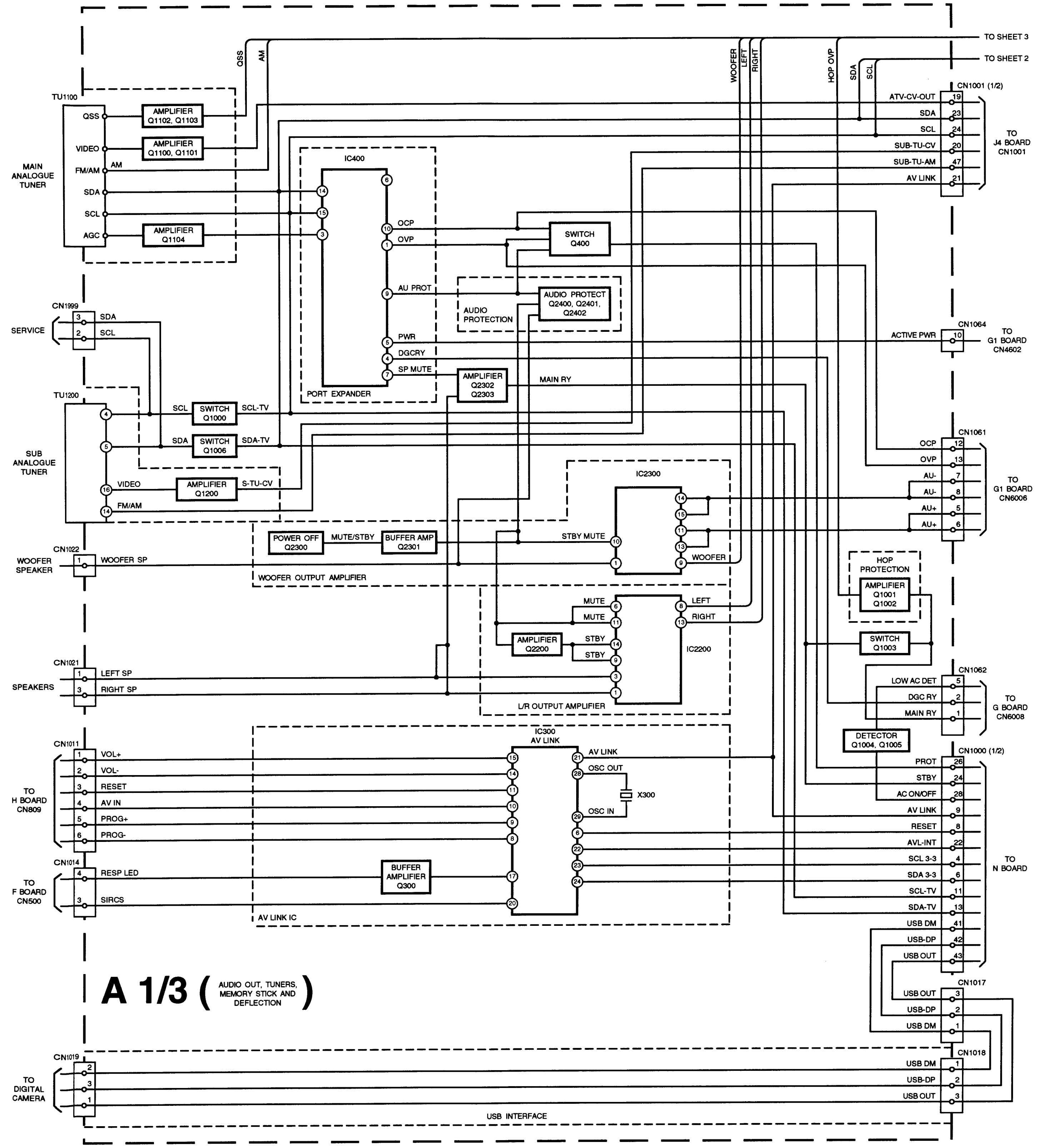


Menu	Enter Service Menu
00	Exit from'TT' mode
01	Set picture level to maximum
02	Set picture level to minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode on
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub brightness adjustment
15	Rotation coil test
16	Picture level 50%
17	Production monitor
18	Design mode enable/disable
19	Production mode enable/disable
21	Destination ADE
22	Destination B, Multi
24	Destination U
27	Destination K
28	Destination R
29	H Centre Adjustment
31	Auto standby enable/disable
34	Screen Mode Automatic Test
36	VM off/on test
37	VM on
38	VM off
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound

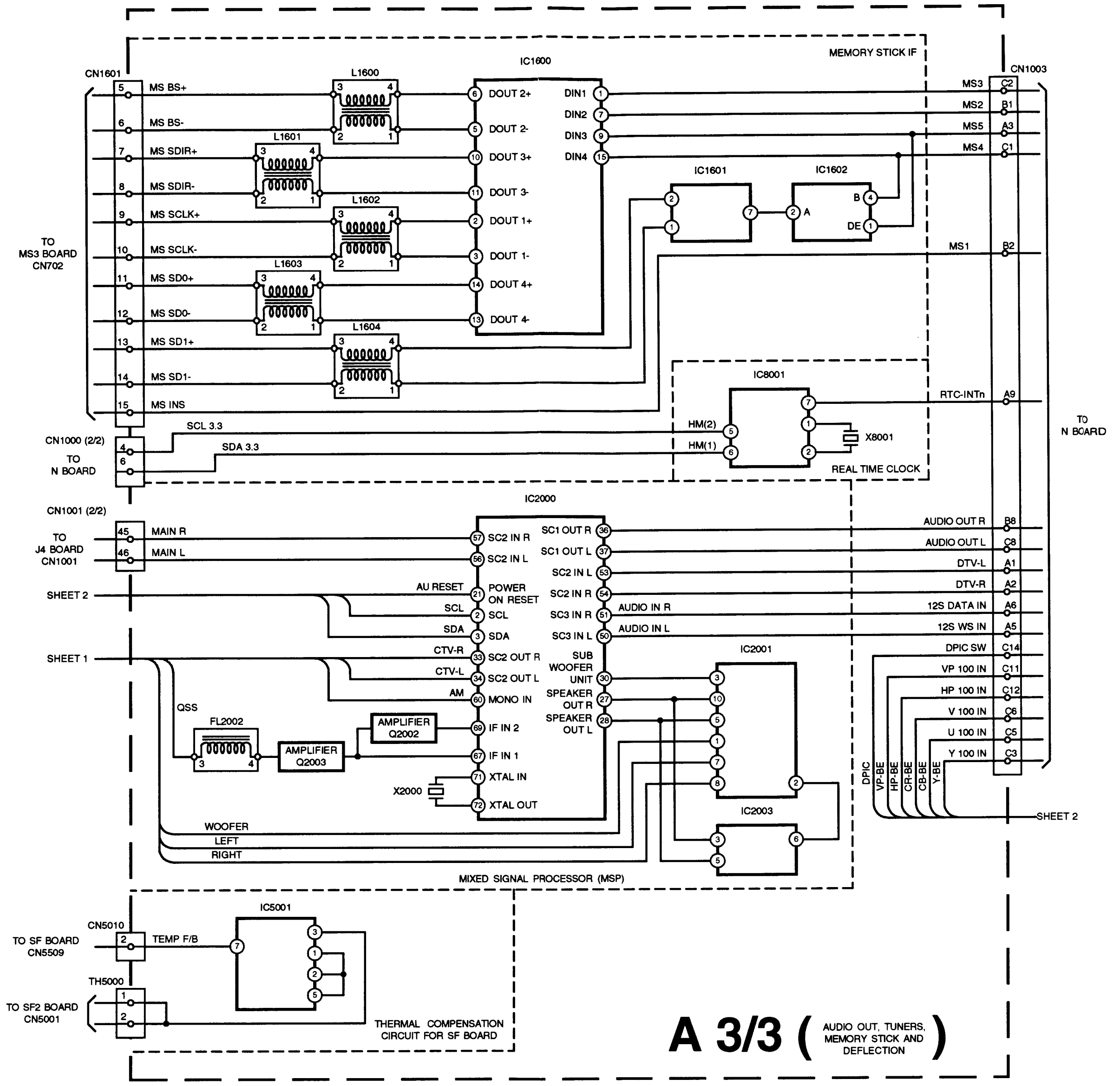
46	Select Stereo sound
47	Set Flash as non-virgin
49	Set Flash as virgin
51	Virtual Dolby on/off
52	Subwoofer check
54	FM Overmodulation enable/disable
55	Enter SFC adjustment mode
56	Focus Phase adjust
57	Focus DC level adjust
58	Memory Stick Capture Test
59	Camera Test
62	AM from baseband enable/disable
65	Reset Errors
66	Error Checking enable/disable
71	Force PAL
72	Unforced PAL
75	Pin Amp/UC Pin Deflection offset adjust
76	LC Pin/Trap Deflection offset adjust
77	Reset Deflection offsets
78	Balance full left
79	Balance full right
81	Digital BER Display On/Off
87	Local keys test
88	Clear digital tuning database
91	Set 14:9 mode
92	Set Smart mode
93	Set 16:9 mode
94	Set ZOOM mode
95	Set 4:3 mode
96	TS path switch (tuner/CI slot)
99	Display Error and Working Time menu

BLANK PAGE

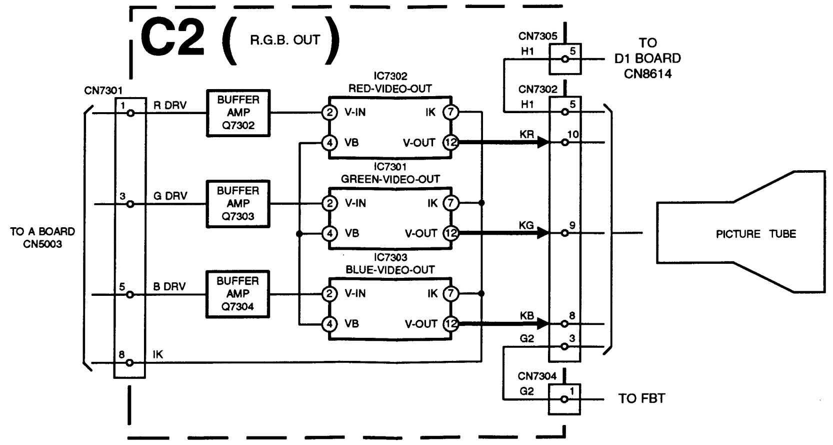
5-1. BLOCK DIAGRAMS (1)


TO SHEET 3
TO SHEET 2
QSS
AM
WOOFER
LEFT
RIGHT
HOP OVP
SDA
SCL
TU1100
MAIN ANALOGUE TUNER
QSS
VIDEO
FM/AM
SDA
SCL
AGC
AMPLIFIER Q1102, Q1103
AMPLIFIER Q1100, Q1101
AMPLIFIER Q1104
IC400
PORT EXPANDER
OCP
OVP
AU PROT
PWR
DGCRY
SP MUTE
SWITCH Q400
AUDIO PROTECT Q2400, Q2401, Q2402
AUDIO PROTECTION
AMPLIFIER Q2302 Q2303
MAIN RY
CN1001 (1/2)
ATV-CV-OUT
SDA
SCL
SUB-TU-CV
SUB-TU-AM
AV LINK
TO J4 BOARD CN1001
CN1999
SERVICE
SDA
SCL
CN1064
ACTIVE PWR
TO G1 BOARD CN4602
TU1200
SUB ANALOGUE TUNER
SWITCH Q1000
SWITCH Q1006
SCL-TV
SDA-TV
VIDEO
FM/AM
AMPLIFIER Q1200
S-TU-CV
CN1061
OCP
OVP
AU-
AU+
TO G1 BOARD CN6006
IC2300
POWER OFF Q2300
MUTE/STBY
BUFFER AMP Q2301
STBY MUTE
WOOFER OUTPUT AMPLIFIER
CN1022
WOOFER SPEAKER
WOOFER SP
HOP PROTECTION
AMPLIFIER Q1001 Q1002
SWITCH Q1003
IC2200
MUTE
STBY
AMPLIFIER Q2200
LEFT
RIGHT
L/R OUTPUT AMPLIFIER
CN1021
SPEAKERS
LEFT SP
RIGHT SP
CN1062
LOW AC DET
DGC RY
MAIN RY
TO G BOARD CN6008
DETECTOR Q1004, Q1005
IC300 AV LINK
AV LINK
OSC OUT
OSC IN
X300
CN1011
TO H BOARD CN809
VOL+
VOL-
RESET
AV IN
PROG+
PROG-
CN1014
TO F BOARD CN500
RESP LED
SIRCS
BUFFER AMPLIFIER Q300
AV LINK IC
CN1000 (1/2)
PROT
STBY
AC ON/OFF
AV LINK
RESET
AVL-INT
SCL 3-3
SDA 3-3
SCL-TV
SDA-TV
USB DM
USB-DP
USB OUT
TO N BOARD
CN1017
USB OUT
USB-DP
USB DM
CN1018
USB DM
USB-DP
USB OUT
CN1019
TO DIGITAL CAMERA
USB INTERFACE

A 1/3 (AUDIO OUT, TUNERS, MEMORY STICK AND DEFLECTION)

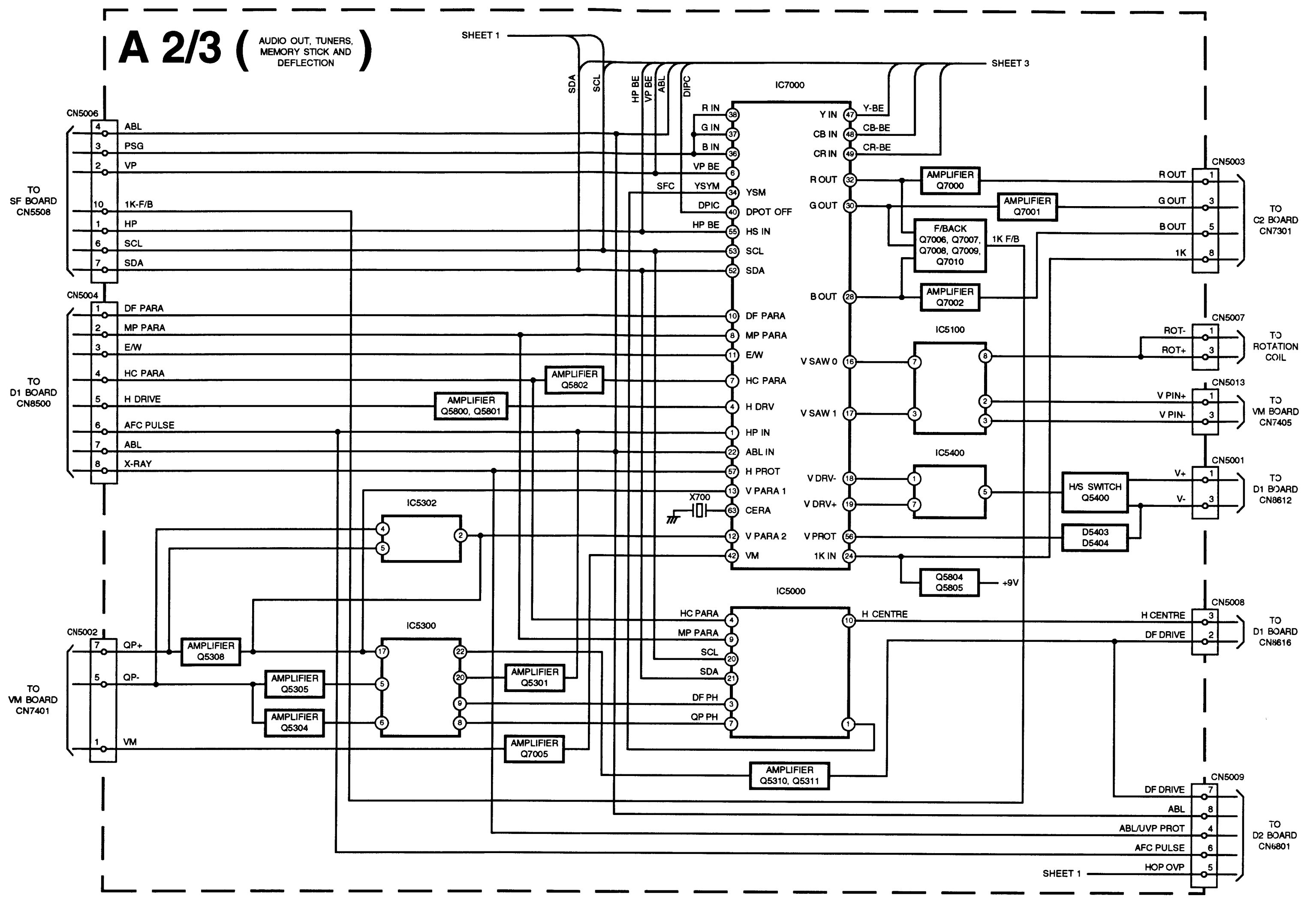

MEMORY STICK IF
CN1601
TO MS3 BOARD CN702
MS BS+
MS BS-
MS SDIR+
MS SDIR-
MS SCLK+
MS SCLK-
MS SD0+
MS SD0-
MS SD1+
MS SD1-
MS INS
L1600
L1601
L1602
L1603
L1604
IC1600
DOUT 2+
DOUT 2-
DOUT 3+
DOUT 3-
DOUT 1+
DOUT 1-
DOUT 4+
DOUT 4-
DIN1
DIN2
DIN3
DIN4
IC1601
IC1602
CN1003
MS3
MS2
MS5
MS4
MS1
TO N BOARD
IC8001
RTC-INTn
HM(2)
HM(1)
X8001
REAL TIME CLOCK
CN1000 (2/2)
TO N BOARD
SCL 3.3
SDA 3.3
CN1001 (2/2)
TO J4 BOARD CN1001
MAIN R
MAIN L
SHEET 2
SHEET 1
IC2000
SC2 IN R
SC2 IN L
AU RESET
POWER ON RESET
SCL
SDA
CTV-R
CTV-L
AM
SC2 OUT R
SC2 OUT L
MONO IN
IF IN 2
IF IN 1
XTAL IN
XTAL OUT
X2000
SC1 OUT R
SC1 OUT L
SC2 IN L
SC2 IN R
SC3 IN R
SC3 IN L
SUB WOOFER UNIT
SPEAKER OUT R
SPEAKER OUT L
AUDIO IN R
AUDIO IN L
QSS
FL2002
AMPLIFIER Q2003
AMPLIFIER Q2002
IC2001
IC2003
WOOFER
LEFT
RIGHT
MIXED SIGNAL PROCESSOR (MSP)
AUDIO OUT R
AUDIO OUT L
DTV-L
DTV-R
12S DATA IN
12S WS IN
DPIC SW
VP 100 IN
HP 100 IN
V 100 IN
U 100 IN
Y 100 IN
DPIC
VP-BE
HP-BE
CR-BE
CB-BE
Y-BE
SHEET 2
CN5010
TO SF BOARD CN5509
TEMP F/B
IC5001
TH5000
TO SF2 BOARD CN5001
THERMAL COMPENSATION CIRCUIT FOR SF BOARD

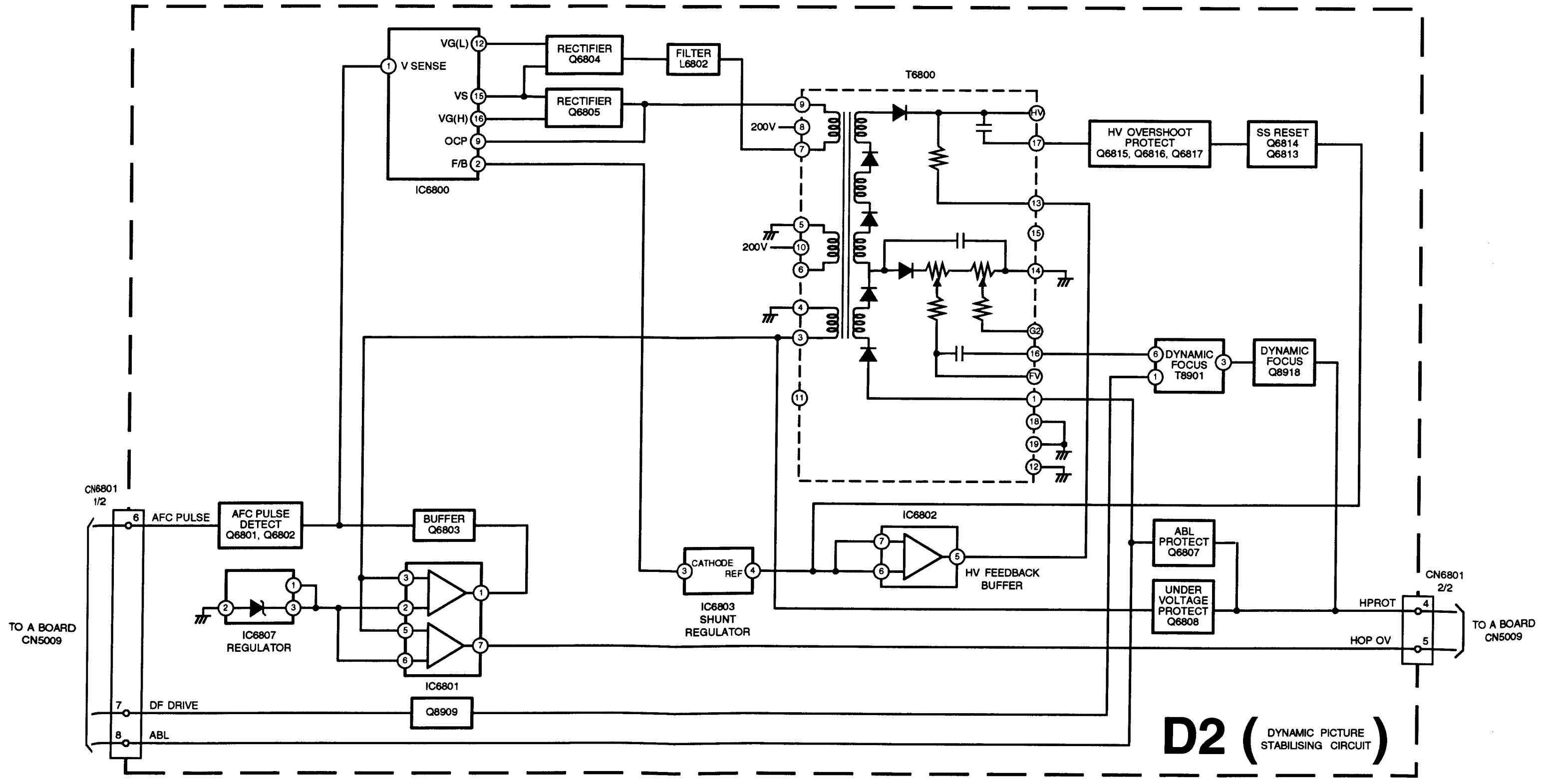
A 3/3 (AUDIO OUT, TUNERS, MEMORY STICK AND DEFLECTION)

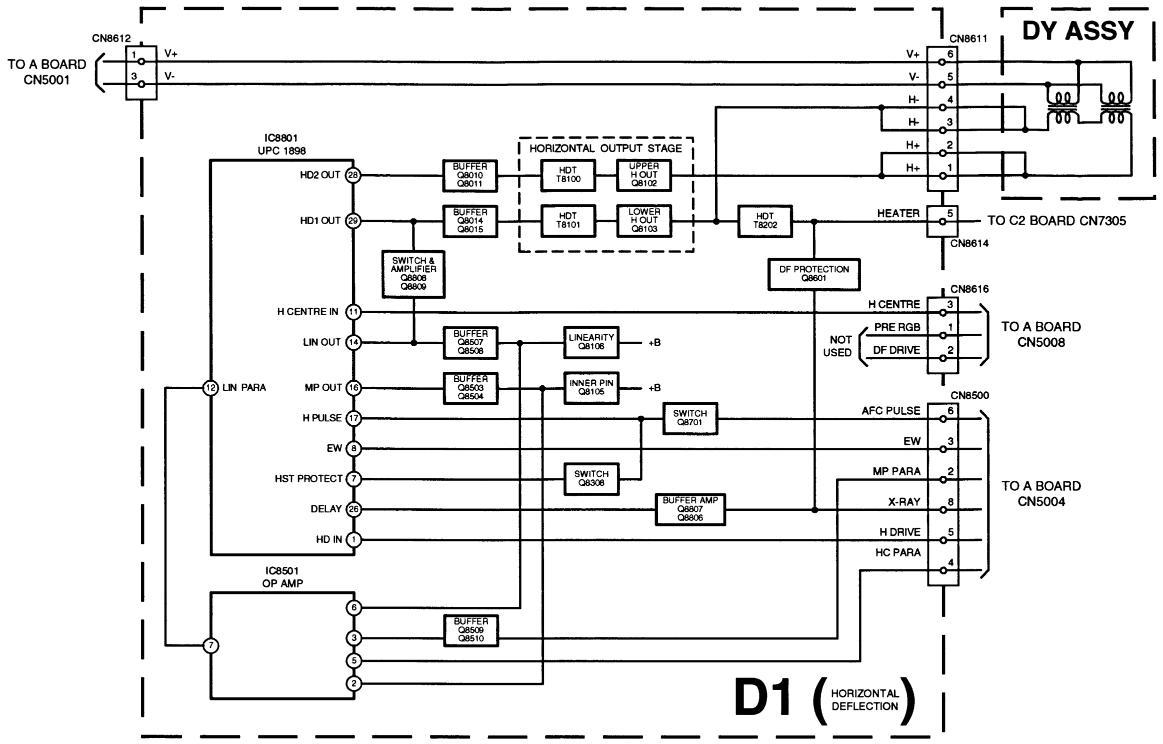

CN7301
TO A BOARD CN5003
R DRV
G DRV
B DRV
IK
BUFFER AMP Q7302
BUFFER AMP Q7303
BUFFER AMP Q7304
IC7302 RED-VIDEO-OUT
IC7301 GREEN-VIDEO-OUT
IC7303 BLUE-VIDEO-OUT
V-IN
VB
IK
V-OUT
CN7305
H1
TO D1 BOARD CN8614
CN7302
H1
KR
KG
KB
G2
CN7304
G2
TO FBT
PICTURE TUBE

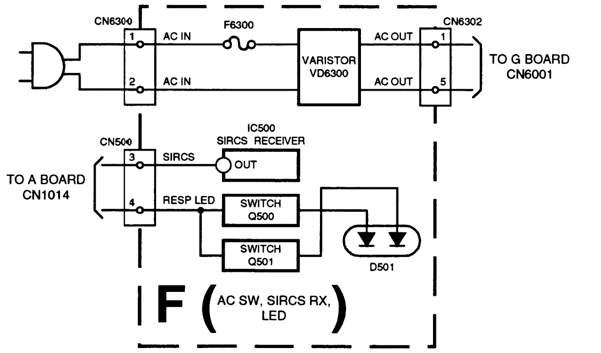
C2 (R.G.B. OUT)

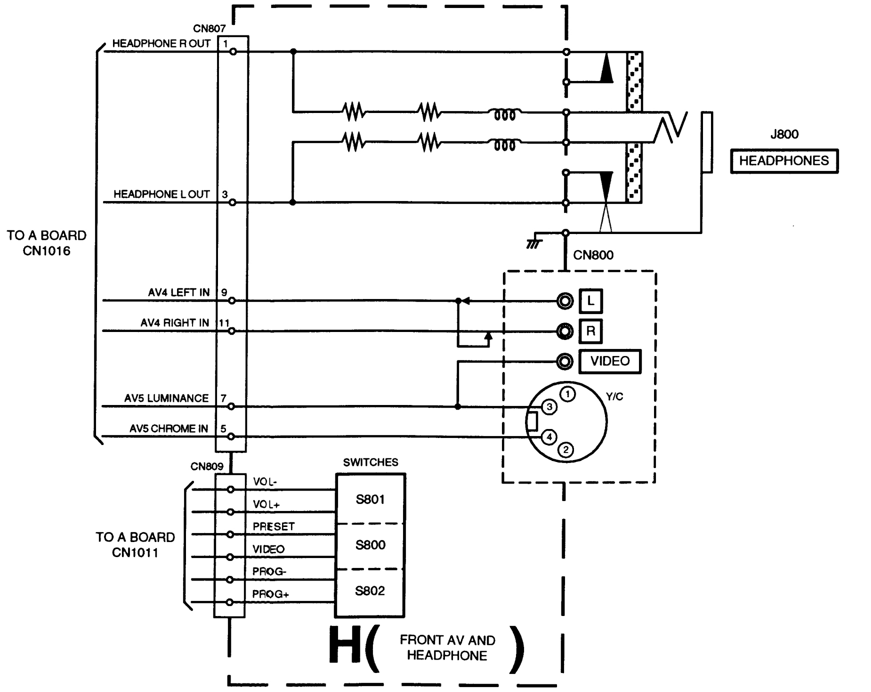
5-1. BLOCK DIAGRAMS (2)


A 2/3 (AUDIO OUT, TUNERS, MEMORY STICK AND DEFLECTION)
SHEET 1
SHEET 3
SDA
SCL
HP BE
VP BE
ABL
DIPC
IC7000
CN5006
TO SF BOARD CN5508
ABL
PSG
VP
1K-F/B
HP
SCL
SDA
CN5004
TO D1 BOARD CN8500
DF PARA
MP PARA
E/W
HC PARA
H DRIVE
AFC PULSE
ABL
X-RAY
R IN
G IN
B IN
VP BE
SFC
YSYM
DPIC
HP BE
YSM
DPOT OFF
HS IN
SCL
SDA
Y IN
Y-BE
CB IN
CB-BE
CR IN
CR-BE
R OUT
G OUT
B OUT
AMPLIFIER Q7000
AMPLIFIER Q7001
F/BACK Q7006, Q7007, Q7008, Q7009, Q7010
1K F/B
AMPLIFIER Q7002
CN5003
R OUT
G OUT
B OUT
1K
TO C2 BOARD CN7301
DF PARA
MP PARA
E/W
HC PARA
H DRV
HP IN
ABL IN
H PROT
V PARA 1
CERA
X700
V PARA 2
VM
AMPLIFIER Q5802
AMPLIFIER Q5800, Q5801
V SAW 0
V SAW 1
IC5100
CN5007
ROT-
ROT+
TO ROTATION COIL
CN5013
V PIN+
V PIN-
TO VM BOARD CN7405
V DRV-
V DRV+
IC5400
H/S SWITCH Q5400
CN5001
V+
V-
TO D1 BOARD CN8612
V PROT
D5403 D5404
1K IN
Q5804 Q5805
+9V
IC5302
IC5000
HC PARA
MP PARA
SCL
SDA
DF PH
QP PH
H CENTRE
CN5008
H CENTRE
DF DRIVE
TO D1 BOARD CN8616
CN5002
TO VM BOARD CN7401
QP+
QP-
VM
AMPLIFIER Q5306
AMPLIFIER Q5305
AMPLIFIER Q5304
IC5300
AMPLIFIER Q5301
AMPLIFIER Q7005
AMPLIFIER Q5310, Q5311
CN5009
DF DRIVE
ABL
ABL/UVP PROT
AFC PULSE
HOP OVP
TO D2 BOARD CN6801
SHEET 1

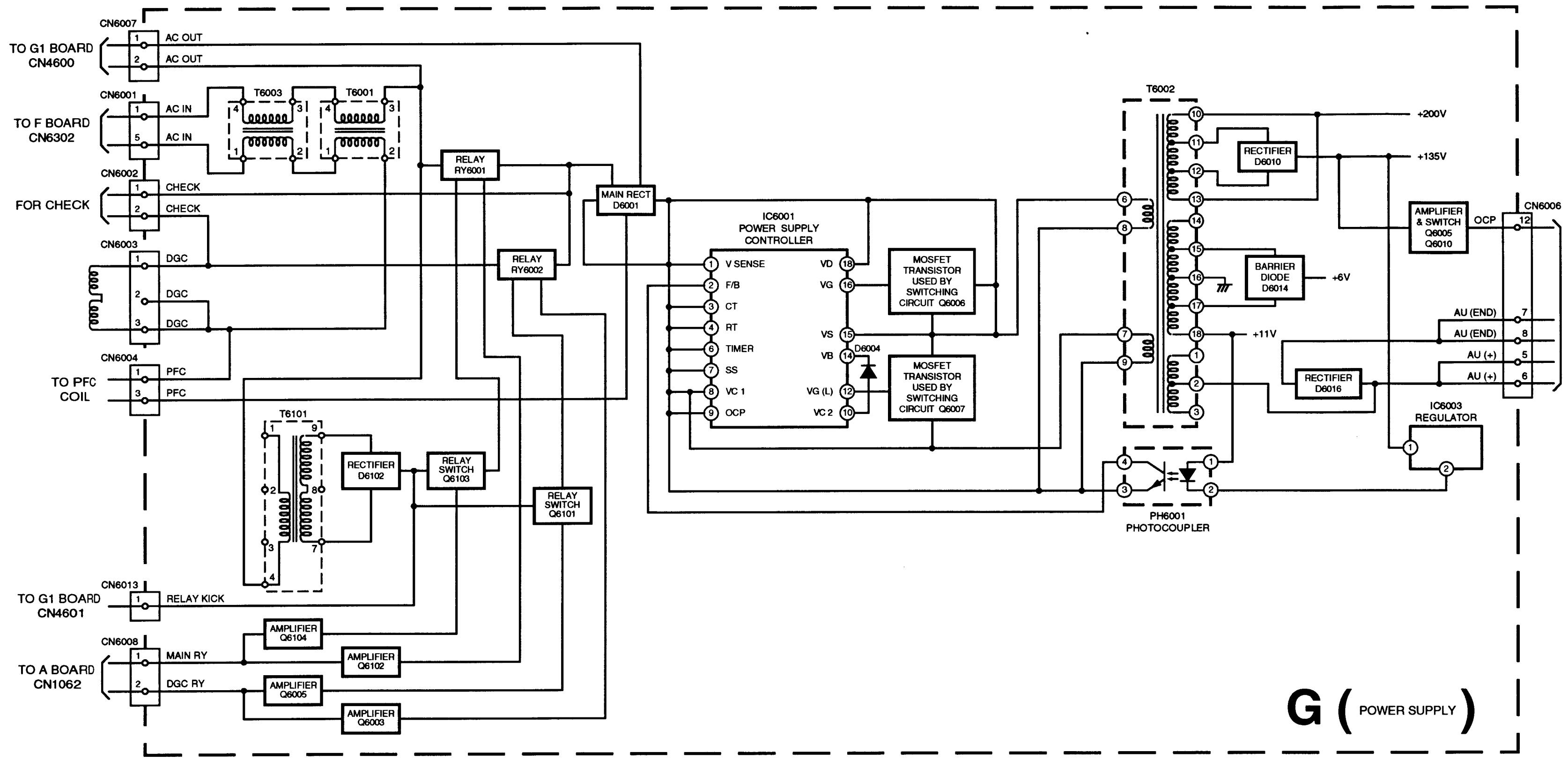

V SENSE
VG(L)
VS
VG(H)
OCP
F/B
IC6800
RECTIFIER Q6804
RECTIFIER Q6805
FILTER L6802
T6800
200V
200V
HV
HV OVERSHOOT PROTECT Q6815, Q6816, Q6817
SS RESET Q6814 Q6813
G2
FV
DYNAMIC FOCUS T6901
DYNAMIC FOCUS Q6918
CN6801 1/2
TO A BOARD CN5009
AFC PULSE
AFC PULSE DETECT Q6801, Q6802
BUFFER Q6803
IC6807 REGULATOR
IC6801
CATHODE REF
IC6803 SHUNT REGULATOR
IC6802
HV FEEDBACK BUFFER
ABL PROTECT Q6807
UNDER VOLTAGE PROTECT Q6808
CN6801 2/2
HPROT
HOP OV
TO A BOARD CN5009
DF DRIVE
ABL
Q6909
D2 (DYNAMIC PICTURE STABILISING CIRCUIT)

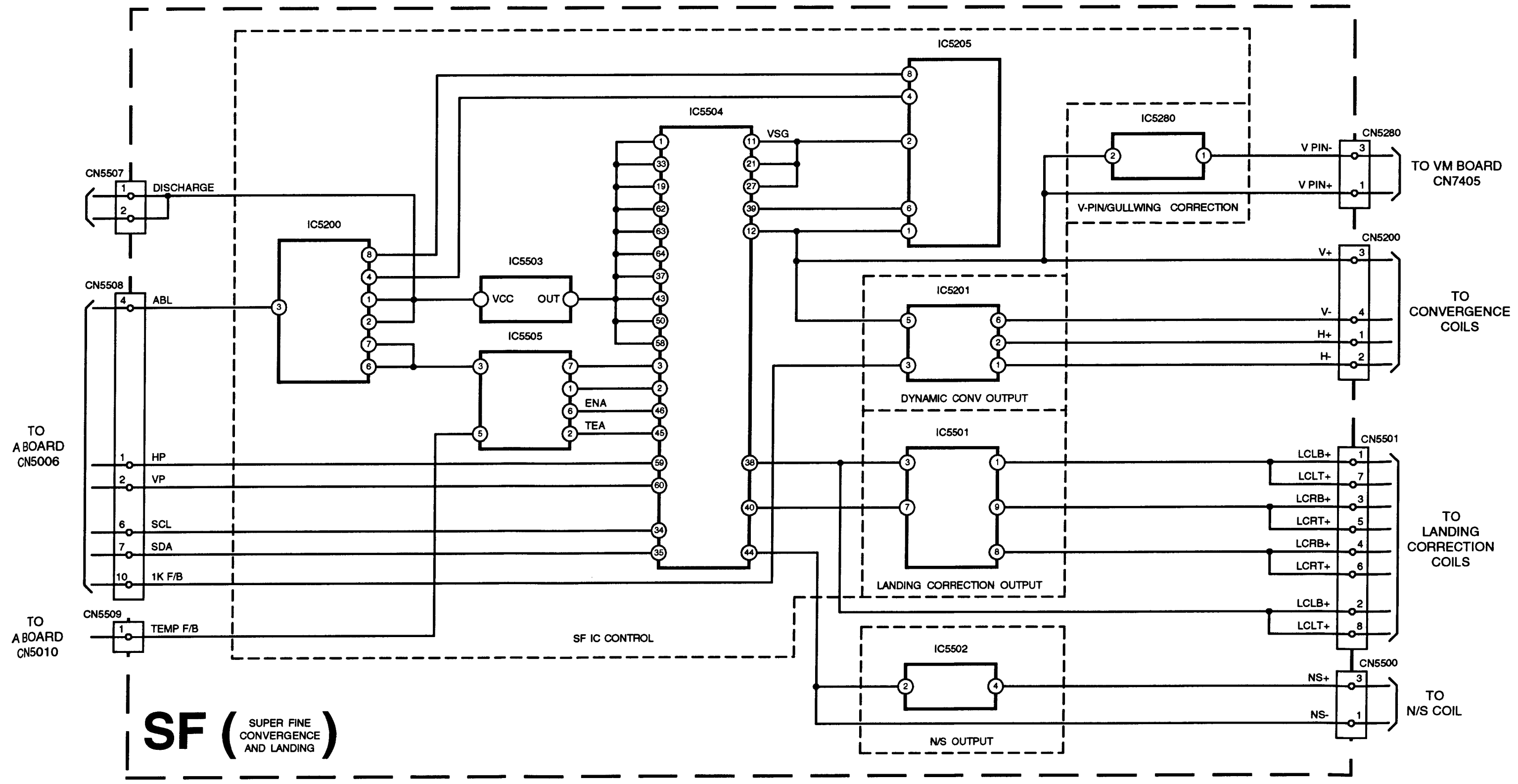

DY ASSY
CN8612
TO A BOARD CN5001
V+
V-
CN8611
V+
V-
H-
H-
H+
H+
IC8801 UPC 1898
HD2 OUT
HD1 OUT
BUFFER Q8010 Q8011
BUFFER Q8014 Q8015
HORIZONTAL OUTPUT STAGE
HDT T8100
UPPER H OUT Q8102
HDT T8101
LOWER H OUT Q8103
HDT T8202
HEATER
CN8614
TO C2 BOARD CN7305
DF PROTECTION Q8601
SWITCH & AMPLIFIER Q8808 Q8809
H CENTRE IN
LIN OUT
MP OUT
H PULSE
EW
HST PROTECT
DELAY
HD IN
LIN PARA
BUFFER Q8507 Q8508
BUFFER Q8503 Q8504
LINEARITY Q8106
INNER PIN Q8105
+B
SWITCH Q8701
SWITCH Q8308
BUFFER AMP Q8807 Q8806
CN8616
H CENTRE
PRE RGB
DF DRIVE
NOT USED
TO A BOARD CN5008
CN8500
AFC PULSE
EW
MP PARA
X-RAY
H DRIVE
HC PARA
TO A BOARD CN5004
IC8501 OP AMP
BUFFER Q8509 Q8510
D1 (HORIZONTAL DEFLECTION)

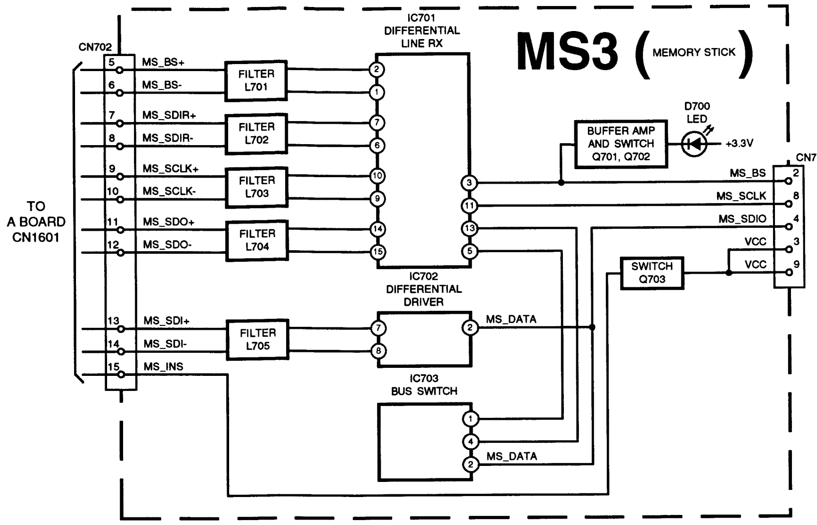

CN6300
AC IN
F6300
AC IN
VARISTOR VD6300
AC OUT
AC OUT
CN6302
TO G BOARD CN6001
IC500 SIRCS RECEIVER
CN500
SIRCS
OUT
TO A BOARD CN1014
RESP LED
SWITCH Q500
SWITCH Q501
D501
F (AC SW, SIRCS RX, LED)

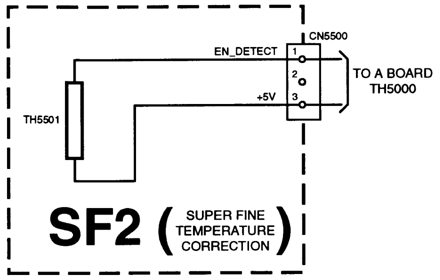

CN807
HEADPHONE R OUT
HEADPHONE L OUT
TO A BOARD CN1016
J800
HEADPHONES
CN800
AV4 LEFT IN
AV4 RIGHT IN
L
R
VIDEO
AV5 LUMINANCE
AV5 CHROME IN
Y/C
CN809
TO A BOARD CN1011
SWITCHES
VOL-
VOL+
PRESET
VIDEO
PROG-
PROG+
S801
S800
S802
H (FRONT AV AND HEADPHONE)

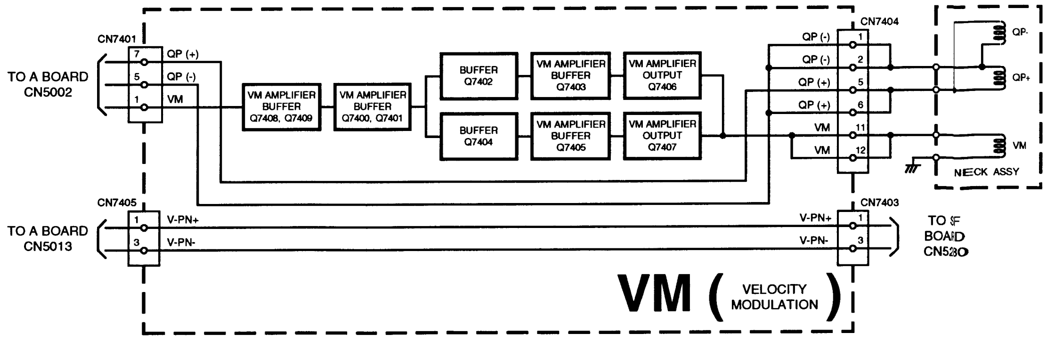
5-1. BLOCK DIAGRAMS (3)

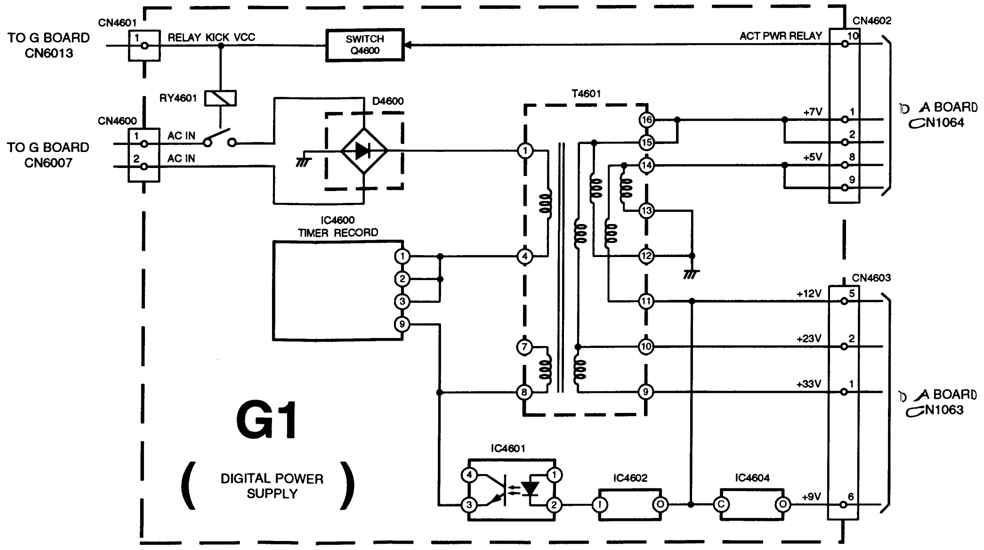

G (POWER SUPPLY)
TO G1 BOARD CN4600
CN6007
AC OUT
TO F BOARD CN6302
CN6001
AC IN
T6003
T6001
FOR CHECK
CN6002
CHECK
CN6003
DGC
TO PFC COIL
CN6004
PFC
RELAY RY6001
RELAY RY6002
MAIN RECT D6001
IC6001 POWER SUPPLY CONTROLLER
V SENSE
F/B
CT
RT
TIMER
SS
VC 1
OCP
VD
VG
VS
VB
VG (L)
VC 2
D6004
MOSFET TRANSISTOR USED BY SWITCHING CIRCUIT Q6006
MOSFET TRANSISTOR USED BY SWITCHING CIRCUIT Q6007
T6002
+200V
+135V
RECTIFIER D6010
BARRIER DIODE D6014
+6V
+11V
RECTIFIER D6016
AMPLIFIER & SWITCH Q6005 Q6010
OCP
CN6006
AU (END)
AU (+)
TO A BOARD CN1061
IC6003 REGULATOR
PH6001 PHOTOCOUPLER
T6101
RECTIFIER D6102
RELAY SWITCH Q6103
RELAY SWITCH Q6101
TO G1 BOARD CN4601
CN6013
RELAY KICK
TO A BOARD CN1062
CN6008
MAIN RY
DGC RY
AMPLIFIER Q6104
AMPLIFIER Q6102
AMPLIFIER Q6005
AMPLIFIER Q6003


SF (SUPER FINE CONVERGENCE AND LANDING)
CN5507
DISCHARGE
CN5508
ABL
TO A BOARD CN5006
HP
VP
SCL
SDA
1K F/B
TO A BOARD CN5010
CN5509
TEMP F/B
IC5200
IC5503
VCC
OUT
IC5505
ENA
TEA
IC5504
VSG
IC5205
IC5280
V-PIN/GULLWING CORRECTION
CN5280
V PIN-
V PIN+
TO VM BOARD CN7405
CN5200
V+
V-
H+
H-
TO CONVERGENCE COILS
IC5201
DYNAMIC CONV OUTPUT
CN5501
IC5501
LCLB+
LCLT+
LCRB+
LCRT+
LCRB-
LCRT-
LCLB-
LCLT-
TO LANDING CORRECTION COILS
LANDING CORRECTION OUTPUT
SF IC CONTROL
IC5502
N/S OUTPUT
CN5500
NS+
NS-
TO N/S COIL

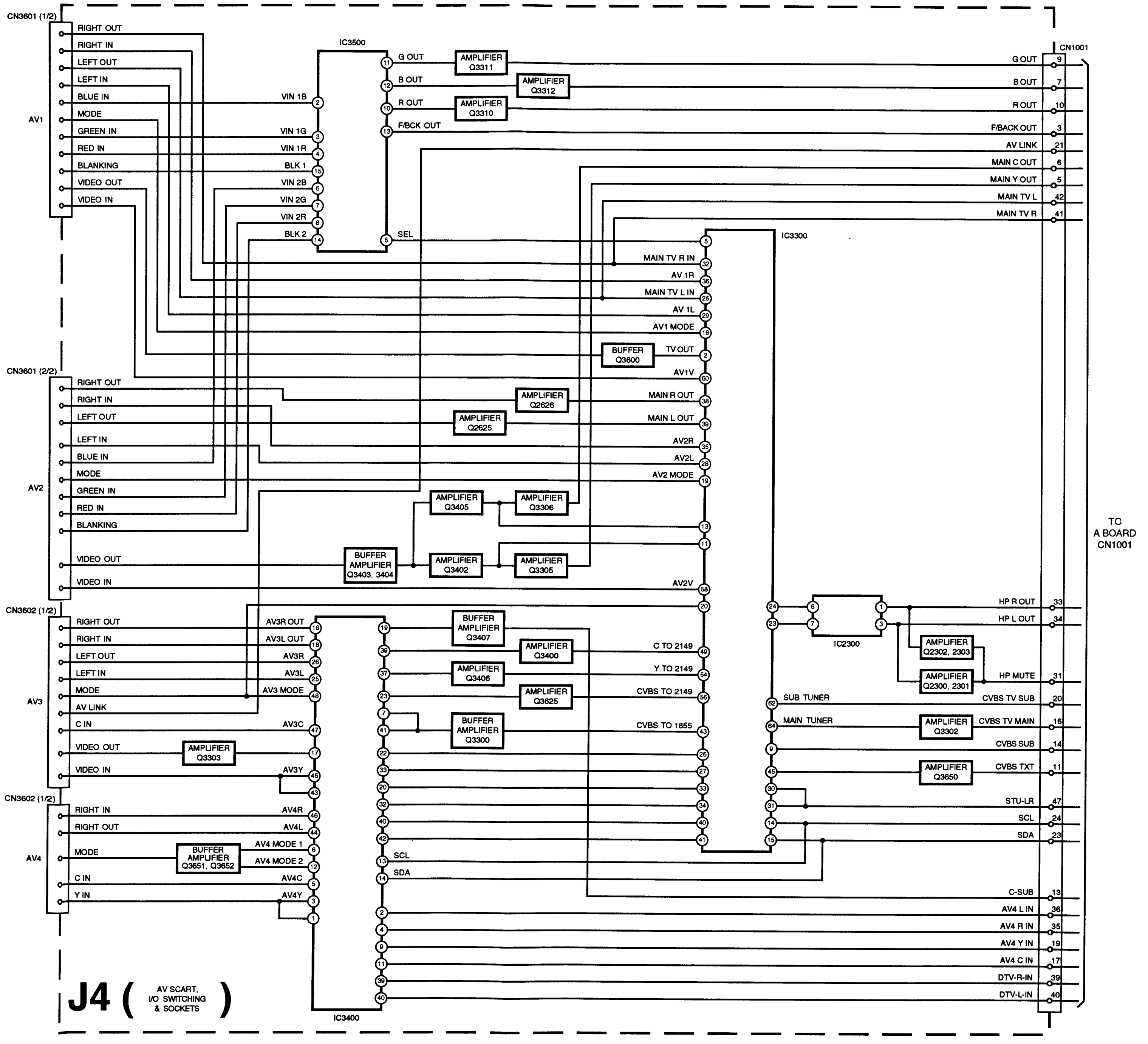

MS3 (MEMORY STICK)
CN702
TO A BOARD CN1601
MS_BS+
MS_BS-
MS_SDIR+
MS_SDIR-
MS_SCLK+
MS_SCLK-
MS_SDO+
MS_SDO-
MS_SDI+
MS_SDI-
MS_INS
FILTER L701
FILTER L702
FILTER L703
FILTER L704
FILTER L705
IC701 DIFFERENTIAL LINE RX
IC702 DIFFERENTIAL DRIVER
IC703 BUS SWITCH
MS_DATA
BUFFER AMP AND SWITCH Q701, Q702
D700 LED
+3.3V
CN701
MS_BS
MS_SCLK
MS_SDIO
VCC
SWITCH Q703


SF2 (SUPER FINE TEMPERATURE CORRECTION)
CN5500
EN_DETECT
+5V
TH5501
TO A BOARD TH5000

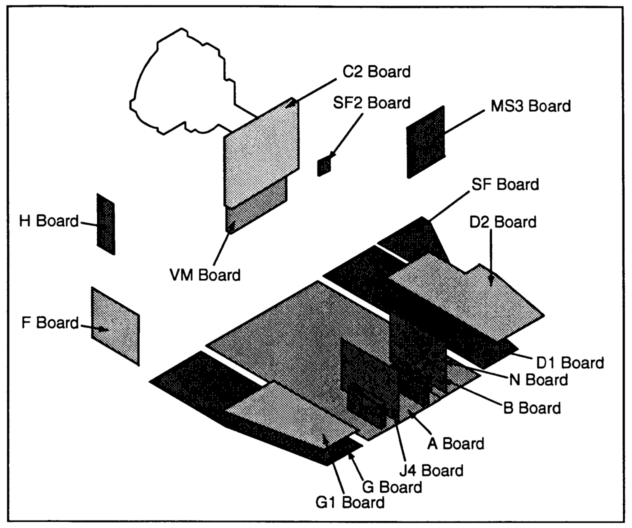

VM (VELOCITY MODULATION)
TO A BOARD CN5002
CN7401
QP (+)
QP (-)
VM
VM AMPLIFIER BUFFER Q7408, Q7409
VM AMPLIFIER BUFFER Q7400, Q7401
BUFFER Q7402
BUFFER Q7404
VM AMPLIFIER BUFFER Q7403
VM AMPLIFIER BUFFER Q7405
VM AMPLIFIER OUTPUT Q7406
VM AMPLIFIER OUTPUT Q7407
CN7404
QP-
QP+
NECK ASSY
TO A BOARD CN5013
CN7405
V-PN+
V-PN-
CN7403
TO SF BOARD CN5280


G1 (DIGITAL POWER SUPPLY)
TO G BOARD CN6013
CN4601
RELAY KICK VCC
SWITCH Q4600
ACT PWR RELAY
CN4602
TO G BOARD CN6007
CN4600
RY4601
AC IN
D4600
T4601
+7V
+5V
TO A BOARD CN1064
IC4600 TIMER RECORD
CN4603
+12V
+23V
+33V
TO A BOARD CN1063
IC4601
IC4602
IC4604
+9V

5-1. BLOCK DIAGRAMS (4)


CN3601 (1/2)
RIGHT OUT
RIGHT IN
LEFT OUT
LEFT IN
BLUE IN
MODE
GREEN IN
RED IN
BLANKING
VIDEO OUT
VIDEO IN
AV1
IC3500
VIN 1B
VIN 1G
VIN 1R
BLK 1
VIN 2B
VIN 2G
VIN 2R
BLK 2
G OUT
B OUT
R OUT
F/BCK OUT
SEL
AMPLIFIER Q3311
AMPLIFIER Q3312
AMPLIFIER Q3310
CN1001
G OUT
B OUT
R OUT
F/BACK OUT
AV LINK
MAIN C OUT
MAIN Y OUT
MAIN TV L
MAIN TV R
IC3300
MAIN TV R IN
AV 1R
MAIN TV L IN
AV 1L
AV1 MODE
BUFFER Q3600
TV OUT
AV1V
AMPLIFIER Q2626
AMPLIFIER Q2625
MAIN R OUT
MAIN L OUT
AV2R
AV2L
AV2 MODE
CN3601 (2/2)
AV2
AMPLIFIER Q3405
AMPLIFIER Q3306
BUFFER AMPLIFIER Q3403, 3404
AMPLIFIER Q3402
AMPLIFIER Q3305
AV2V
TO A BOARD CN1001
CN3602 (1/2)
AV3
AV LINK
C IN
AV3R OUT
AV3L OUT
AV3R
AV3L
AV3 MODE
AV3C
AV3Y
AMPLIFIER Q3303
BUFFER AMPLIFIER Q3407
AMPLIFIER Q3400
AMPLIFIER Q3406
AMPLIFIER Q3625
BUFFER AMPLIFIER Q3300
C TO 2149
Y TO 2149
CVBS TO 2149
CVBS TO 1855
IC2300
HP R OUT
HP L OUT
AMPLIFIER Q2302, 2303
AMPLIFIER Q2300, 2301
HP MUTE
SUB TUNER
MAIN TUNER
CVBS TV SUB
AMPLIFIER Q3302
CVBS TV MAIN
CVBS SUB
AMPLIFIER Q3650
CVBS TXT
STU-LR
SCL
SDA
CN3602 (1/2)
AV4
Y IN
AV4R
AV4L
AV4 MODE 1
AV4 MODE 2
BUFFER AMPLIFIER Q3651, Q3652
AV4C
AV4Y
C-SUB
AV4 L IN
AV4 R IN
AV4 Y IN
AV4 C IN
DTV-R-IN
DTV-L-IN
IC3400
J4 (AV SCART, I/O SWITCHING & SOCKETS)

5-2. CIRCUIT BOARD LOCATION


C2 Board
SF2 Board
MS3 Board
SF Board
D2 Board
H Board
VM Board
F Board
D1 Board
N Board
B Board
A Board
J4 Board
G Board
G1 Board

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
- pF : μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- ▬ : B + bus.
- ▬ ▬ ▬ : B - bus.
- ⇨ : RF signal path.
- ⊥ : earth - ground.
- ⏚ : earth - chassis.

Reference Information

RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	⋇	: ADJUSTMENT RESISTOR
COIL	**LF-8L**	: MICRO INDUCTOR
CAPACITOR	**TA**	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

~ A Board Location Table (A Side) ~

Ref	Location
DIODE	
D400	K - 1
D1607	H - 4
D2000	G - 6
D2002	H - 4
D2004	H - 5
D2400	B - 3
D2403	B - 3
D4100	B - 1
D5303	L - 9
D5304	L - 9
D5305	L - 9
D5400	E - 10
D5401	D - 10
D5402	E - 10
D6200	J - 3
D6201	J - 2
D6202	N - 2
D6203	M - 3
D6206	J - 5
D6215	N - 2
D7000	L - 6
D7002	L - 7
D7010	L - 6
D7015	K - 6
D8001	C - 3
IC	
IC300	M - 5
IC400	J - 2
IC1600	I - 5
IC1601	H - 6
IC1602	H - 6
IC2000	F - 6
IC2003	F - 4
IC2200	G - 3
IC2300	I - 3
IC5000	K - 8
IC5001	N - 6
IC5100	L - 8
IC5300	J - 10
IC5302	M - 9
IC5400	D - 10
IC6203	M - 3
IC6205	M - 2
IC6211	J - 5
IC6212	J - 4
IC6213	J - 3
IC6215	M - 4
IC6216	K - 2
IC6225	L - 4
IC6229	K - 5
IC7000	J - 6
IC8001	D - 3
TRANSISTOR	
Q300	L - 5
Q400	K - 2
Q2406	A - 3
Q2408	B - 3
Q5304	K - 9
Q5305	K - 9
Q5308	M - 10
Q5310	I - 10
Q5311	I - 10
Q5400	F - 10
Q5800	I - 10
Q5804	L - 8
Q5805	L - 8
Q7000	K - 7
Q7001	K - 7
Q7002	K - 7
Q7003	L - 7
Q7004	L - 7

~ A Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q1100	1.3	2.0	4.3	Q2004	4.9	5.5	8.8
Q1101	4.9	4.3	2.1	Q5801	3.5	2.8	0
Q1104	0	0.4	4.2	Q5804	3.5	4.2	0
Q2002	1.2	1.8	4.9	Q5801	3.5	2.2	8.9
Q2003	1.8	2.4	4.9	Q7002	3.6	3.0	0

~ A Board Location Table (B Side) ~

Ref	Location
DIODE	
D303	B - 5
D1001	M - 9
D1002	M - 10
D1003	M - 10
D1004	M - 10
D1008	C - 2
D1100	L - 3
D2001	H - 6
D2003	H - 5
D2004	G - 5
D2200	G - 2
D2201	F - 2
D2300	G - 2
D2301	G - 2
D2302	G - 2
D2303	F - 3
D2304	F - 2
D2400	M - 3
D2403	M - 3
D4100	M - 2
D5303	C - 9
D5304	C - 9
D5305	C - 9
D5307	A - 10
D5308	A - 10
D5400	J - 10
D5401	K - 10
D5402	I - 10
D5403	H - 10
D5404	H - 9
D5800	C - 8
D5801	B - 8
D6200	E - 3
D6201	E - 2
D6202	A - 2
D6203	A - 3
D6204	B - 2
D6206	E - 5
IC	
IC2001	H - 4
IC2200	G - 3
IC2300	F - 3
IC5100	B - 7
IC5300	E - 10
IC5302	B - 9
IC5400	K - 10
IC5600	G - 10
IC6203	B - 2
IC6205	B - 2
IC6211	D - 5
IC6212	E - 4
IC6213	E - 2
IC6215	B - 3
IC6216	C - 2
IC6225	C - 3
IC6229	C - 5
TRANSISTOR	
Q1000	G - 8
Q1001	B - 1
Q1002	B - 1
Q1004	C - 2
Q1005	B - 1
Q1006	G - 8
Q1100	H - 3
Q1101	H - 3
Q1102	I - 3
Q1103	J - 3
Q1104	L - 3
Q1200	H - 2
Q1301	M - 3
Q2002	I - 5
Q2003	I - 5
Q2301	F - 2
Q2302	G - 2
Q2303	G - 2
Q2400	E - 4
Q2401	E - 5
Q2402	F - 5
Q2407	M - 3
Q5301	E - 9
Q5304	C - 9
Q5305	D - 9
Q5309	B - 9
Q5400	I - 10
Q5801	E - 8
Q7005	E - 7

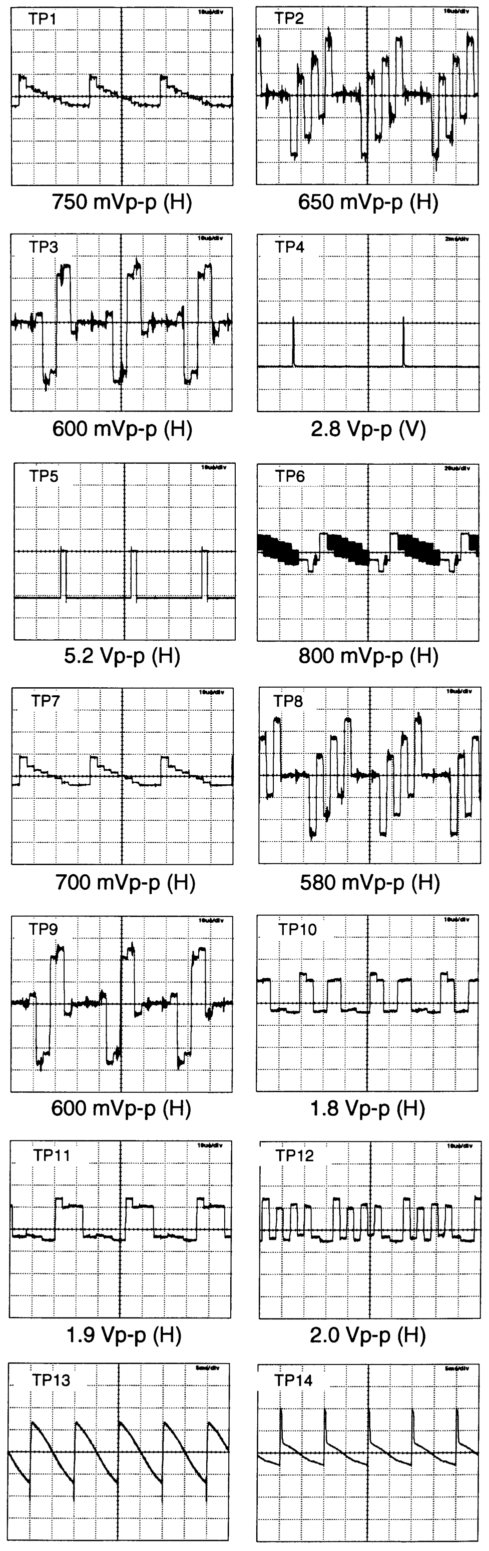
~ A Board IC Voltages ~

Ref No	Pin No	Volts (V)
IC2200	1	0
	2	15.2
	3	0
	4	-15.3
	5	0
	6	0.3
	7	0
	8	0
	9	0
	10	0
IC2200	11	0.3
	12	0
	13	0
	14	0
	15	15.2
IC2300	1	0
	2	-4.3
	3	10.0
	4	0
	5	0
IC2300	6	-13.3
	7	0
	8	-15.3
	9	0
	10	4.2
	11	15.2
	12	-4.3
	13	15.2
	14	-15.3
	15	-15.3
IC5000	1	1.9
	2	1.1
	3	3.6
	4	2.3
	5	4.2
	6	4.2
	7	2.4
	8	2.6
	9	2.6
	10	1.5
IC5000	11	2.2
	12	2.4
	13	4.9
	14	0
	15	4.9
	16	4.9
	17	4.9
	18	0
	19	0
	20	4.8
IC5000	21	4.8
	22	4.9
	23	0
	24	0
IC7000	1	0
	2	0
	3	0
	4	3.1
	5	3.1
	6	3.1
IC7000	7	0
	8	3.6
	9	3.6
	10	3.6
	11	0
	12	0.9
	13	0
	14	2.4
	15	4.9
	16	2.6
IC7000	17	2.6
	18	1.1
	19	4.9
	20	3.5
	21	3.4
	22	3.4
	23	5.0
	24	0
	25	4.8
	26	4.8
IC7000	27	0.9
	28	0.3
	29	5.0
	30	5.7
	31	1.3
	32	3.1
	34	0
	35	0.9
	37	0
	38	2.3
IC7000	39	2.1
	40	2.8
	41	0
	42	0
	43	3.3
	44	0
	45	4.2
	46	3.5
	47	3.8
	48	4.4
IC7000	49	5.2
	50	3.4
	51	4.1
	52	3.4
	53	3.4
	54	0.6
	55	8.9
	56	4.3
	57	4.9
	58	3.7
IC7000	59	1.5
	60	1.5
	61	8.9
	62	2.9
	63	2.9
	64	2.7

~ A Board Difference Table ~

Ref	KV-32HQ100B	KV-32HQ100E	KV-32HQ100K	KV-36HQ100B	KV-36HQ100E	KV-36HQ100K
C1009	-	-	-	47PF	47PFV	47PF
C1010	-	-	-	47PF	47PF	47PF
C1011	-	-	-	47UF	47UF	47UF
C1013	-	-	-	0.1UF	0.1UF	0.1UF
C5320	0.0047UF	0.0047UF	0.0047UF	0.01UF	0.01UF	0.01UF
C5322	-	-	-	0.022UF	0.022UF	0.022UF
C7030	-	-	-	0.1UF	0.1UF	0.1UF
CN1017	-	-	-	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P
CN1018	-	-	-	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P
CN1019	-	-	-	CONNECTOR USB(A)	CONNECTOR USB(A)	CONNECTOR USB(A)
CN5010	-	-	-	PLUG, CONNECTOR 3P	PLUG, CONNECTOR 3P	PLUG, CONNECTOR 3P
D1009	-	-	-	DAN202K	DAN202K	DAN202K
D1010	-	-	-	DAP202K	DAP202K	DAP202K
D1011	-	-	-	UDZSTE-175.6B	UDZSTE-175.6B	UDZSTE-175.6B
D7012	-	-	-	1SS355TE-17	1SS355TE-17	1SS355TE-17
L5300	10MH	10MH	10MH	6.8MH	6.8MH	6.8MH
L5301	10MH	10MH	10MH	4.7MH	4.7MH	4.7MH
L5302	-	-	-	3.3MH	3.3MH	3.3MH
Q7006	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1
Q7007	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1
Q7008	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1
Q7009	-	-	-	MSD601-RST1	MSD601-RST1	MSD601-RST1
Q7010	-	-	-	MSD601-RST1	MSD601-RST1	MSD601-RST1
R1050	-	-	-	15K	15K	15K
R1051	-	-	-	15K	15K	15K
R1052	-	-	-	33	33	33
R1053	-	-	-	33	33	33
R1054	0	0	0	-	-	-
R1056	-	-	-	0	0	0
R5000	47K	47K	47K	68K	68K	68K
R5001	47K	47K	47K	68K	68K	68K
R5003	47K	47K	47K	22K	22K	22K
R5004	10K	10K	10K	8.2K	8.2K	8.2K
R5005	22K	22K	22K	15K	15K	15K
R5007	-	-	-	560K	560K	560K
R5009	-	-	-	220K	220K	220K
R5012	-	-	-	100	100	100
R5014	-	-	-	100	100	100
R5015	33K	33K	33K	100K	100K	100K
R5310	47K	47K	47K	68K	68K	68K
R5311	10K	10K	10K	15K	15K	15K
R5350	6.2K	6.2K	6.2K	6.8K	6.8K	6.8K
R5371	0	0	0	-	-	-
R5372	0	0	0	-	-	-
R5411	4.7K	4.7K	4.7K	2.7K	2.7K	2.7K
R5413	10K	10K	10K	8.2K	8.2K	8.2K
R5414	100K	100K	100K	68K	68K	68K
R5415	47K	47K	47K	27K	27K	27K
R5821	5.6K	5.6K	5.6K	10K	10K	10K
R7043	-	-	-	2.2K	2.2K	2.2K
R7044	-	-	-	2.2K	2.2K	2.2K
R7045	-	-	-	2.2K	2.2K	2.2K
R7046	-	-	-	10K	10K	10K
R7047	-	-	-	10K	10K	10K
R7048	-	-	-	10K	10K	10K
R7049	-	-	-	10K	10K	10K
R7050	-	-	-	4.7K	4.7K	4.7K
R7052	-	-	-	4.7K	4.7K	4.7K
R7053	-	-	-	2.2K	2.2K	2.2K
R7054	-	-	-	2.2K	2.2K	2.2K
R7055	-	-	-	2.2K	2.2K	2.2K
R7058	-	-	-	2.2K	2.2K	2.2K
R7059	-	-	-	1K	1K	1K
R7062	-	-	-	10K	10K	10K
R7063	-	-	-	470	470	470
R7065	-	-	-	100K	100K	100K
TH5000	-	-	-	THERMISTOR	THERMISTOR	THERMISTOR
TU1100	BTF-EF412	BTF-EC412	BTF-EC412	BTF-EF412	BTF-EC412	BTF-EC412
TU1200	BTF-EF412	BTF-EC412	BTF-EC412	BTF-EF412	BTF-EC412	BTF-EC412

~ A Board Waveforms ~



750 mVp-p (H) | 650 mVp-p (H)

600 mVp-p (H) | 2.8 Vp-p (V)

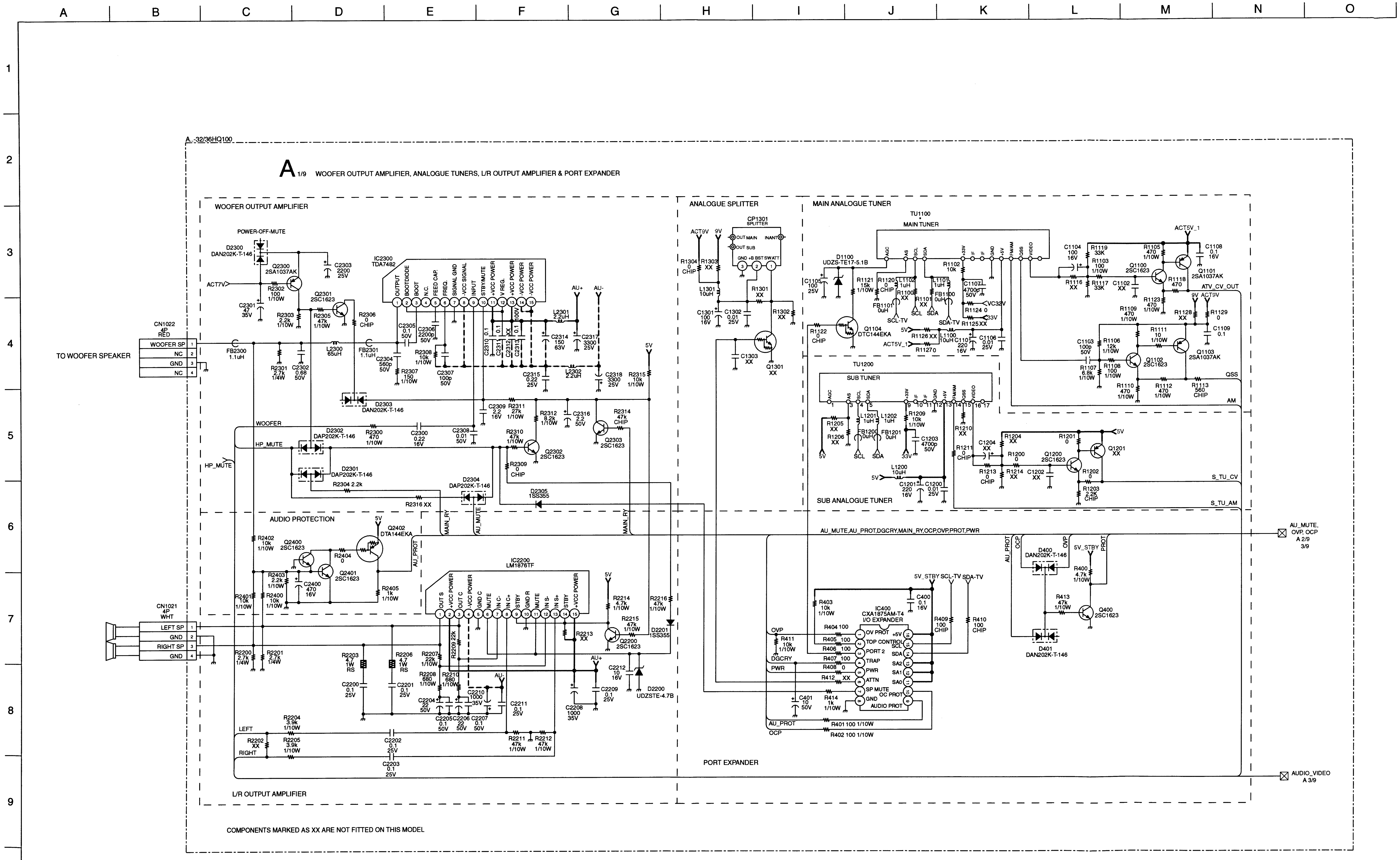
5.2 Vp-p (H) | 800 mVp-p (H)

700 mVp-p (H) | 580 mVp-p (H)

600 mVp-p (H) | 1.8 Vp-p (H)

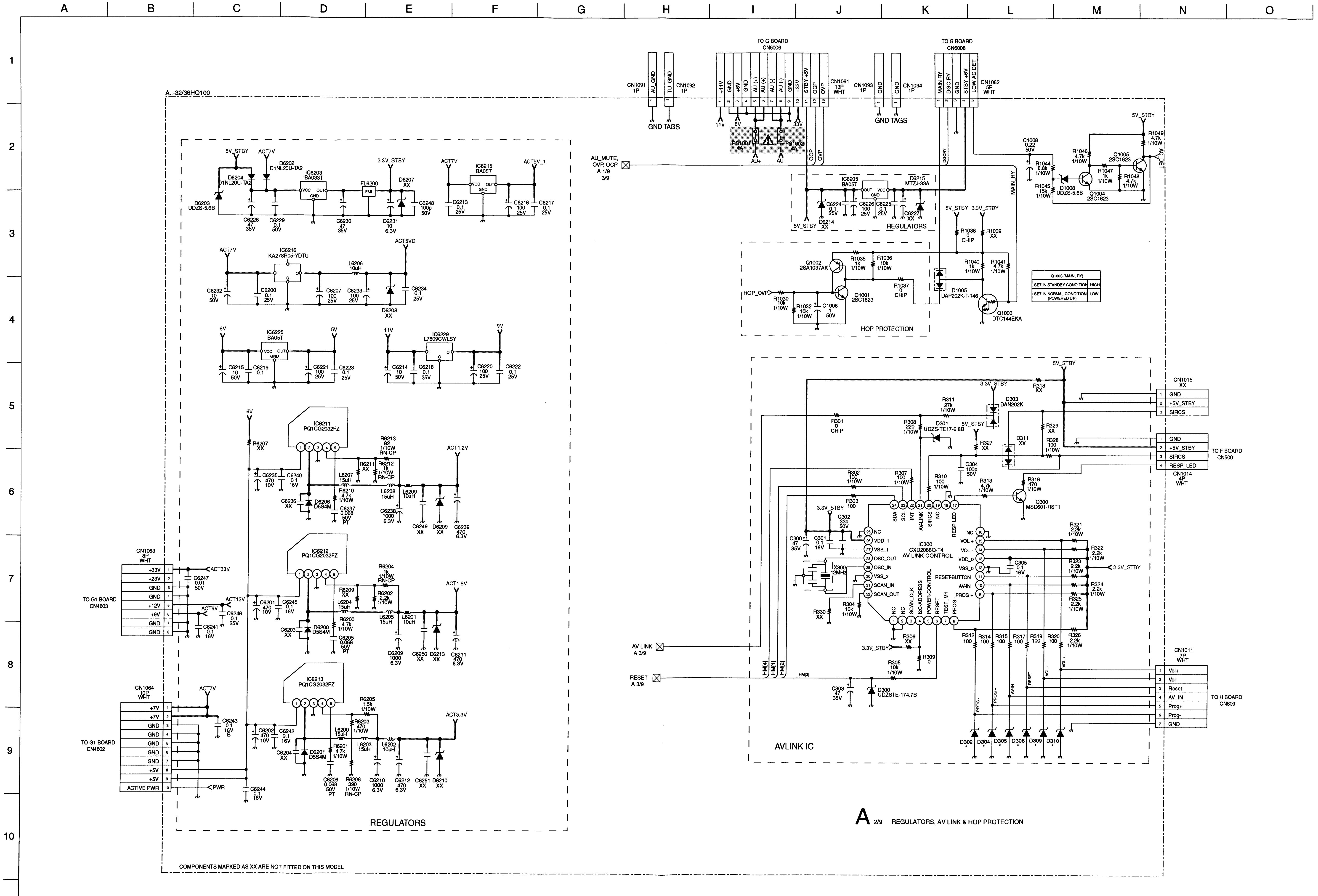
1.9 Vp-p (H) | 2.0 Vp-p (H)

720 mVp-p (V) | 52.0 Vp-p (V)


A-32/36HQ100
A 1/9 WOOFER OUTPUT AMPLIFIER, ANALOGUE TUNERS, L/R OUTPUT AMPLIFIER & PORT EXPANDER
WOOFER OUTPUT AMPLIFIER
POWER-OFF-MUTE
D2300 DAN202K-T-146
Q2300 2SA1037AK
Q2301 2SC1623
IC2300 TDA7482
TO WOOFER SPEAKER
CN1022 4P RED
WOOFER SP
NC
GND
FB2300 1.1uH
L2300 65uH
FB2301 1.1uH
D2303 DAN202K-T-146
D2302 DAP202K-T-146
D2301 DAP202K-T-146
D2304 DAP202K-T-146
D2305 1SS355
Q2302 2SC1623
Q2303 2SC1623
WOOFER
HP_MUTE
AUDIO PROTECTION
Q2400 2SC1623
Q2401 2SC1623
Q2402 DTA144EKA
AU_PROT
MAIN_RY
AU_MUTE
IC2200 LM1876TF
CN1021 4P WHT
LEFT SP
GND
RIGHT SP
GND
Q2200 2SC1623
D2200 UDZSTE-4.7B
D2201 1SS355
LEFT
RIGHT
L/R OUTPUT AMPLIFIER
ANALOGUE SPLITTER
CP1301 SPLITTER
Q1301 XX
MAIN ANALOGUE TUNER
TU1100 MAIN TUNER
D1100 UDZS-TE17-5.1B
Q1104 DTC144EKA
Q1100 2SC1623
Q1101 2SA1037AK
Q1102 2SC1623
Q1103 2SA1037AK
ATV_CV_OUT
QSS
AM
TU1200 SUB TUNER
SUB ANALOGUE TUNER
Q1200 2SC1623
Q1201 XX
S_TU_CV
S_TU_AM
AU_MUTE,AU_PROT,DGCRY,MAIN_RY,OCP,OVP,PROT,PWR
AU_MUTE, OVP, OCP A 2/9 3/9
IC400 CXA1875AM-T4 I/O EXPANDER
D400 DAN202K-T-146
D401 DAN202K-T-146
Q400 2SC1623
PORT EXPANDER
AUDIO_VIDEO A 3/9
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Woofer Output Amplifier, Analogue Tuners, L/R Output Amplifier & Port Expander] Page 1/9 ~


A
B
C
D
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H
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J
K
L
M
N
O
A..-32/36HQ100
TO G BOARD CN6006
TO G BOARD CN6008
CN1091 1P
CN1092 1P
CN1061 13P WHT
CN1093 1P
CN1094 1P
CN1062 5P WHT
GND TAGS
AU_GND
TU_GND
+11V
GND
+6V
AU (+)
AU (-)
STBY +5V
+33V
OCP
OVP
MAIN RY
DGC RY
STBY +6V
LOW AC DET
PS1001 4A
PS1002 4A
AU+
AU-
AU_MUTE, OVP, OCP A 1/9 3/9
5V_STBY
ACT7V
D6202 D1NL20U-TA2
D6204 D1NL20U-TA2
D6203 UDZS-5.6B
IC6203 BA033T
3.3V_STBY
FL6200 EMI
D6207 XX
IC6215 BA05T
ACT5V_1
IC6216 KA278R05-YDTU
ACT5VD
L6206 10uH
D6208 XX
IC6225 BA05T
IC6229 L7809CV/LSY
6V
5V
11V
9V
IC6211 PQ1CG2032FZ
IC6212 PQ1CG2032FZ
IC6213 PQ1CG2032FZ
ACT1.2V
ACT1.8V
ACT3.3V
D6206 D5S4M
D6200 D5S4M
D6201 D5S4M
REGULATORS
CN1063 8P WHT
TO G1 BOARD CN4603
+33V
+23V
GND
+12V
+9V
ACT33V
ACT12V
ACT9V
CN1064 10P WHT
TO G1 BOARD CN4602
+7V
+5V
ACTIVE PWR
PWR
IC6205 BA05T
D6215 MTZJ-33A
D6214 XX
REGULATORS
Q1002 2SA1037AK
Q1001 2SC1623
HOP_OVP
D1005 DAP202K-T-146
Q1003 DTC144EKA
HOP PROTECTION
Q1005 2SC1623
Q1004 2SC1623
D1008 UDZS-5.6B
AC_DET
MAIN_RY
Q1003 (MAIN_RY)
SET IN STANDBY CONDITION HIGH
SET IN NORMAL CONDITION (POWERED UP) LOW
CN1015 XX
GND
+5V_STBY
SIRCS
RESP_LED
CN1014 4P WHT
TO F BOARD CN500
D303 DAN202K
D301 UDZS-TE17-6.8B
D311 XX
Q300 MSD601-RST1
IC300 CXD2088Q-T4 AV LINK CONTROL
X300 12MHz
NC
VDD_1
VSS_1
OSC_OUT
OSC_IN
VSS_2
SCAN_IN
SCAN_OUT
VOL +
VOL -
VDD_0
VSS_0
RESET-BUTTON
AV-IN
PROG +
SDA
SCL
INT
AV-LINK
SIRCS
RESP LED
SCAN_CLK
I2C-ADDRESS
POWER-CONTROL
RESET
TEST_M1
PROG -
3.3V_STBY
AV LINK A 3/9
RESET A 3/9
HM[4]
HM[1]
HM[2]
HM[3]
D300 UDZSTE-174.7B
CN1011 7P WHT
TO H BOARD CN809
Vol+
Vol-
Reset
AV_IN
Prog+
Prog-
D302
D304
D305
D306
D309
D310
AVLINK IC
A 2/9 REGULATORS, AV LINK & HOP PROTECTION
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
1
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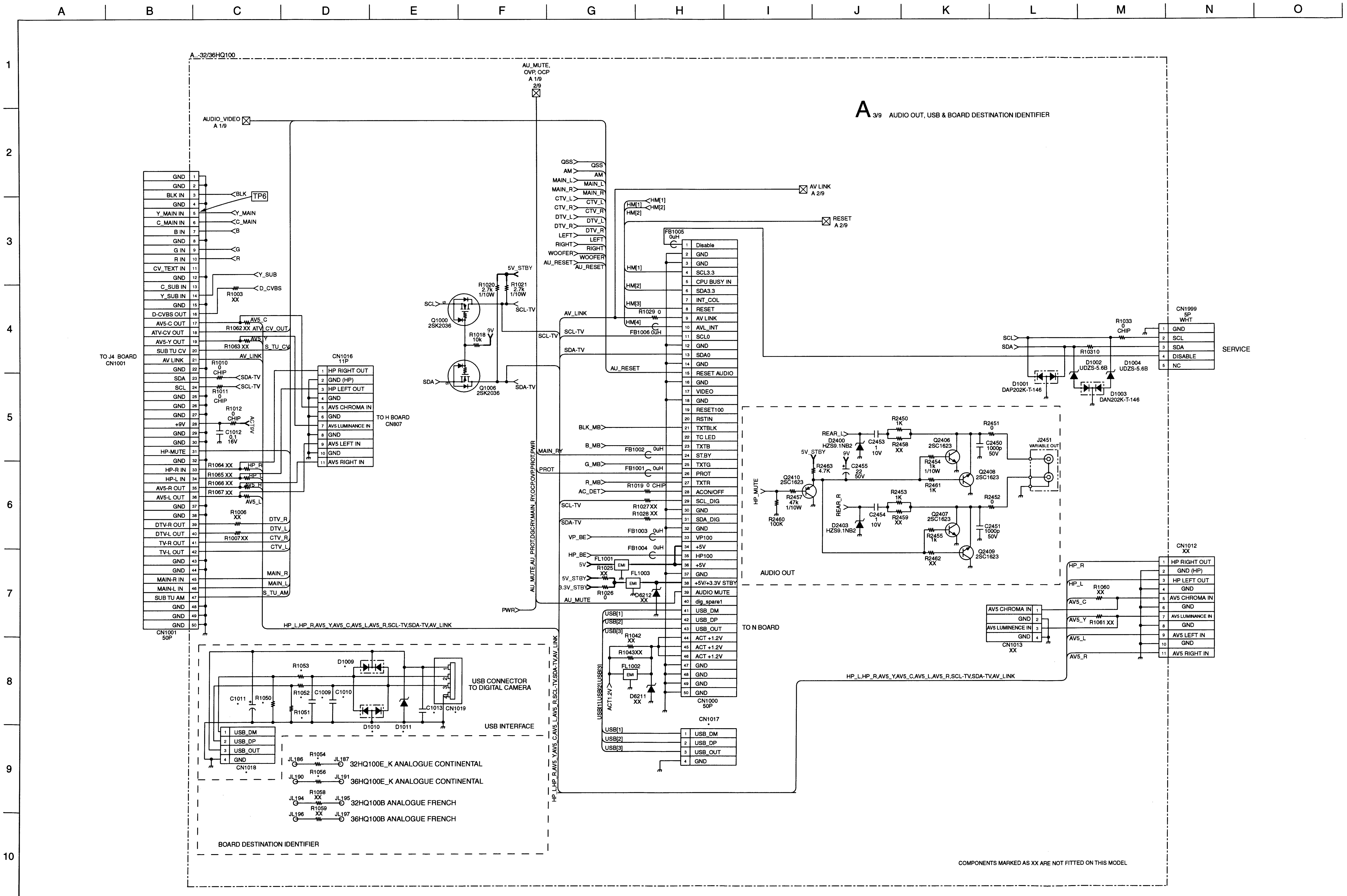
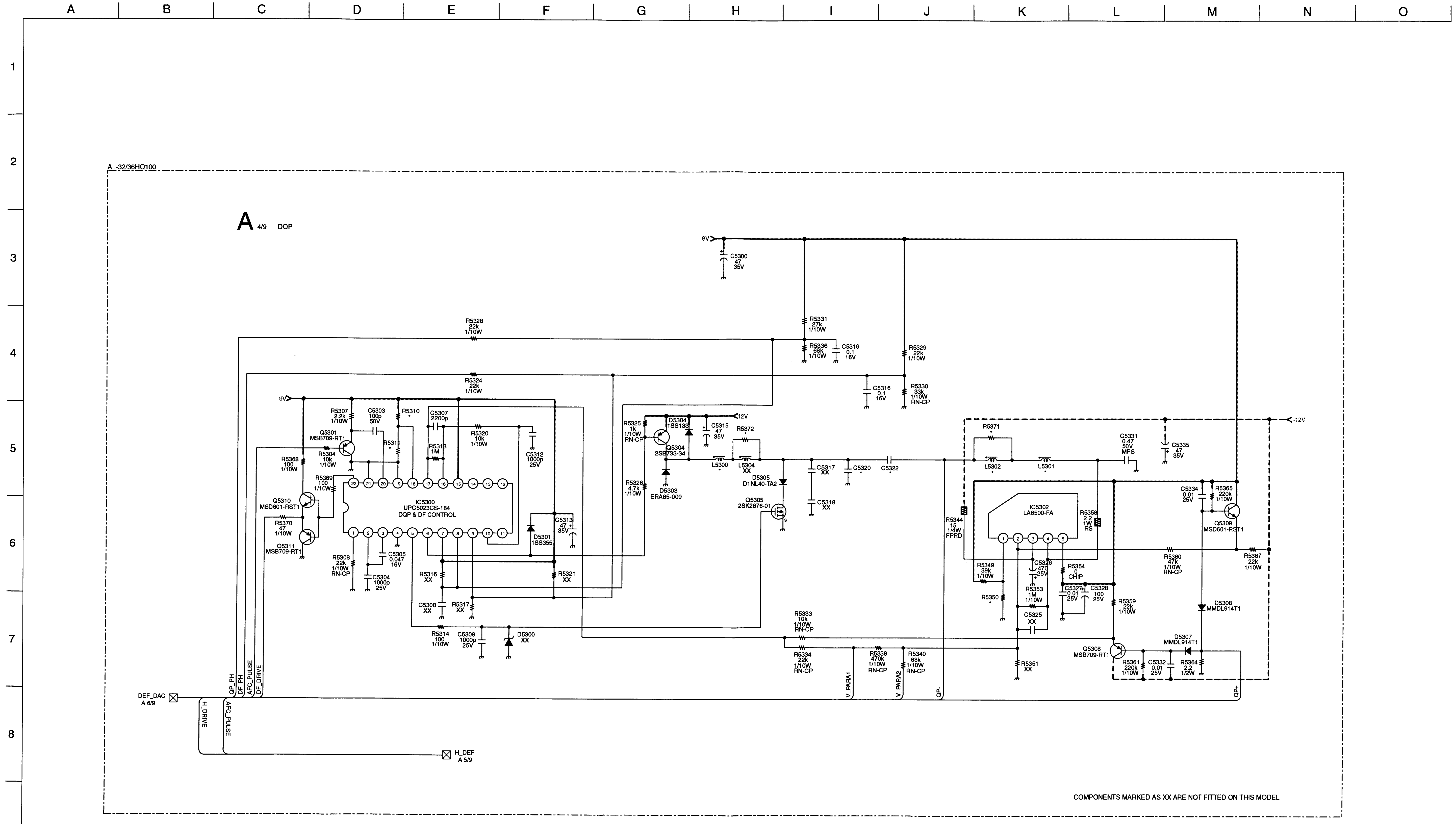
11

~ A Board Schematic Diagram [Regulators, AV Link & Hop Protection] Page 2/9 ~


A 3/9 AUDIO OUT, USB & BOARD DESTINATION IDENTIFIER
A_-32/36HQ100
AUDIO_VIDEO A 1/9
AU_MUTE, OVP, OCP A 1/9 2/9
AV LINK A 2/9
RESET A 2/9
TO J4 BOARD CN1001
CN1001 50P
TP6
CN1016 11P
TO H BOARD CN807
HP RIGHT OUT
GND (HP)
HP LEFT OUT
AV5 CHROMA IN
AV5 LUMINANCE IN
AV5 LEFT IN
AV5 RIGHT IN
Q1000 2SK2036
Q1006 2SK2036
5V_STBY
SCL-TV
SDA-TV
CN1000 50P
TO N BOARD
CN1017
USB_DM
USB_DP
USB_OUT
GND
CN1999 5P WHT
SERVICE
D1001 DAP202K-T-146
D1002 UDZS-5.6B
D1003 DAN202K-T-146
D1004 UDZS-5.6B
AUDIO OUT
J2451 VARIABLE OUT
Q2406 2SC1623
Q2407 2SC1623
Q2408 2SC1623
Q2409 2SC1623
Q2410 2SC1623
D2400 HZS9.1NB2
D2403 HZS9.1NB2
HP_MUTE
REAR_L
REAR_R
CN1012 XX
CN1013 XX
USB CONNECTOR TO DIGITAL CAMERA
CN1019
CN1018
USB INTERFACE
32HQ100E_K ANALOGUE CONTINENTAL
36HQ100E_K ANALOGUE CONTINENTAL
32HQ100B ANALOGUE FRENCH
36HQ100B ANALOGUE FRENCH
BOARD DESTINATION IDENTIFIER
HP_L,HP_R,AV5_Y,AV5_C,AV5_L,AV5_R,SCL-TV,SDA-TV,AV_LINK
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Audio Out, USB & Board Destination Identifier] Page 3/9 ~


A
B
C
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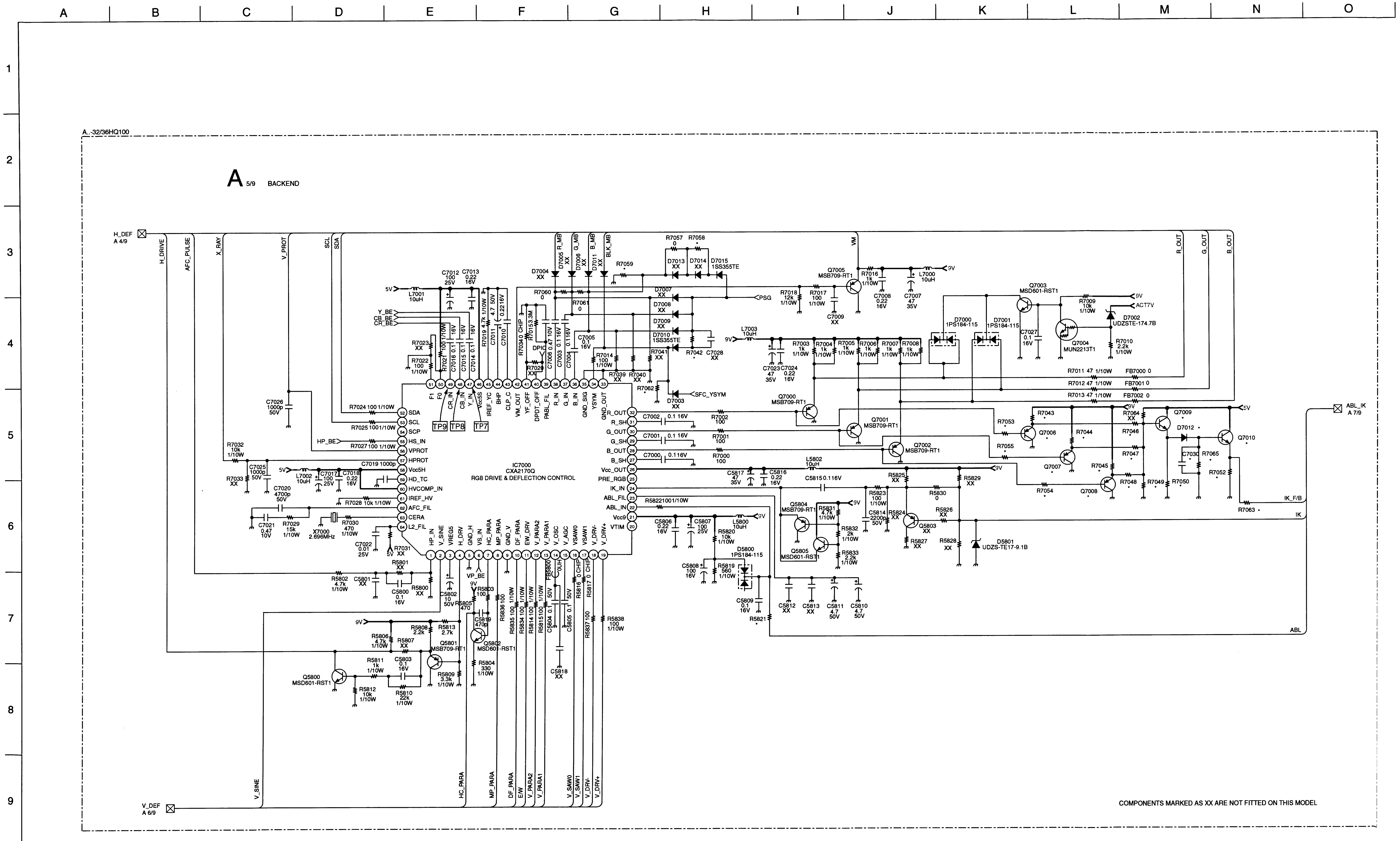
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
A..32/36HQ100
A 4/9 DQP
9V
C5300 47 35V
R5331 27k 1/10W
R5336 68k 1/10W
C5319 0.1 16V
R5329 22k 1/10W
R5328 22k 1/10W
R5324 22k 1/10W
C5316 0.1 16V
R5330 33k 1/10W RN-CP
R5307 2.2k 1/10W
C5303 100p 50V
R5310
C5307 2200p
R5320 10k 1/10W
C5312 1000p 25V
Q5301 MSB709-RT1
R5304 10k 1/10W
R5311
R5313 1M
R5368 100 1/10W
R5369 100 1/10W
Q5310 MSD601-RST1
R5370 47 1/10W
Q5311 MSB709-RT1
IC5300 UPC5023CS-184 DQP & DF CONTROL
R5308 22k 1/10W RN-CP
C5305 0.047 16V
C5304 1000p 25V
R5316 XX
C5308 XX
R5317 XX
D5301 1SS355
C5313 47 35V
R5321 XX
R5314 100 1/10W
C5309 1000p 25V
D5300 XX
R5325 1k 1/10W RN-CP
D5304 1SS133
C5315 47 35V
12V
Q5304 2SB733-34
R5372
R5326 4.7k 1/10W
D5303 ERA85-009
L5300
L5304 XX
D5305 D1NL40-TA2
Q5305 2SK2876-01
C5317 XX
C5320
C5322
C5318 XX
R5333 10k 1/10W RN-CP
R5334 22k 1/10W RN-CP
R5338 470k 1/10W RN-CP
R5340 68k 1/10W RN-CP
R5371
L5302
L5301
C5331 0.47 50V MPS
C5335 47 35V
-12V
R5344 15 1/4W FPRD
IC5302 LA6500-FA
R5358 2.2 1W RS
C5334 0.01 25V
R5365 220k 1/10W
Q5309 MSD601-RST1
R5349 39k 1/10W
C5326 470 25V
R5354 0 CHIP
R5350
R5353 1M 1/10W
C5327 0.01 25V
C5328 100 25V
C5325 XX
R5360 47k 1/10W RN-CP
R5367 22k 1/10W
R5359 22k 1/10W
D5308 MMDL914T1
D5307 MMDL914T1
Q5308 MSB709-RT1
R5351 XX
R5361 220k 1/10W
C5332 0.01 25V
R5364 2.2 1/2W
QP_PH
DF_PH
AFC_PULSE
DF_DRIVE
DEF_DAC A 6/9
H_DRIVE
AFC_PULSE
H_DEF A 5/9
V_PARA1
V_PARA2
QP-
QP+

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [DQP]Page 4/9 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
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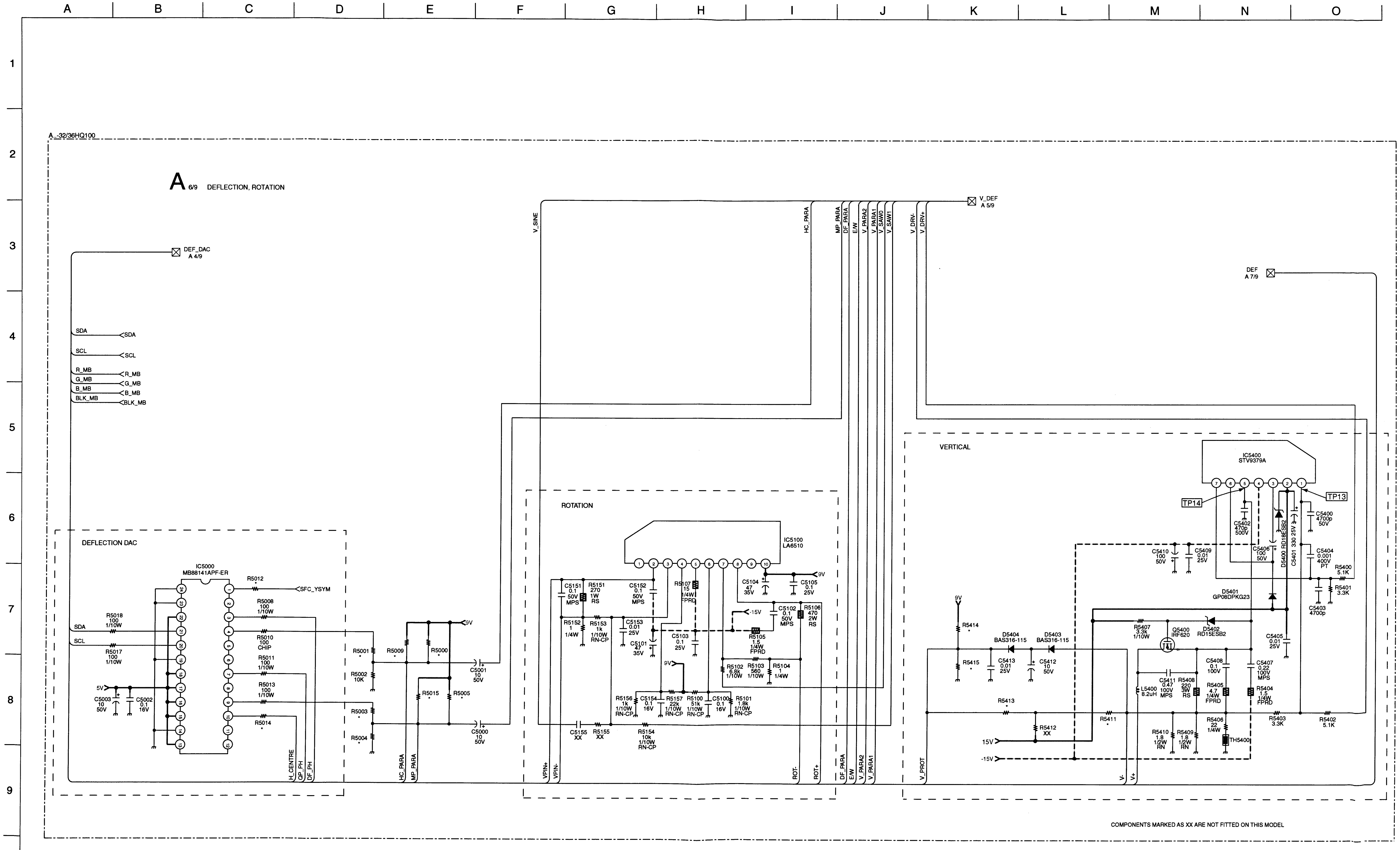
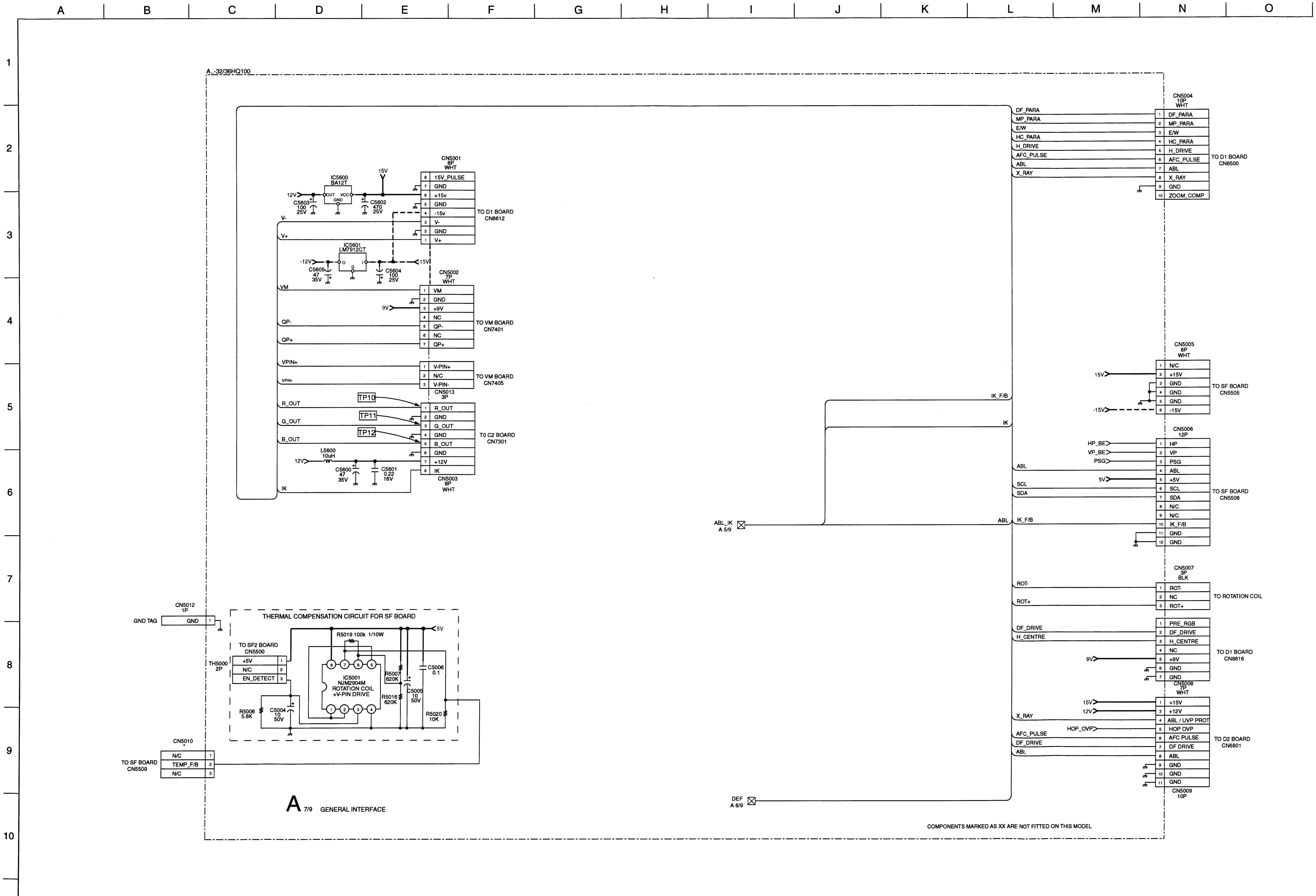
4
5
6
7
8
9
A_-32/36HQ100
A 5/9 BACKEND
H_DEF
A 4/9
H_DRIVE
AFC_PULSE
X_RAY
V_PROT
SCL
SDA
R_MB
G_MB
B_MB
BLK_MB
VM
R_OUT
G_OUT
B_OUT
5V
9V
Y_BE
CB_BE
CR_BE
PSG
ACT7V
SFC_YSYM
HP_BE
TP9
TP8
TP7
IC7000
CXA2170Q
RGB DRIVE & DEFLECTION CONTROL
SDA
SCL
SCP
HS_IN
VPROT
HPROT
Vcc5H
HD_TC
HVCOMP_IN
IREF_HV
AFC_FIL
CERA
L2_FIL
R_OUT
R_SH
G_OUT
G_SH
B_OUT
B_SH
Vcc_OUT
PRE_RGB
IK_IN
ABL_FIL
ABL_IN
Vcc9
VTIM
HP_IN
V_SINE
VREG5
H_DRV
GND_H
VS_IN
HC_PARA
MP_PARA
GND_V
DF_PARA
EW_DRV
V_PARA2
V_PARA1
V_OSC
V_AGC
VSAW0
VSAW1
V_DRV-
V_DRV+
F1
F0
CR_IN
CB_IN
Y_IN
Vcc5S
IREF_YC
BHP
CLP_C
VM_OUT
YF_OFF
DPDT_OFF
PABL_FIL
R_IN
G_IN
B_IN
GND_SIG
YSYM
GND_OUT
Q7000 MSB709-RT1
Q7001 MSB709-RT1
Q7002 MSB709-RT1
Q7003 MSD601-RST1
Q7004 MUN2213T1
Q7005 MSB709-RT1
Q7006
Q7007
Q7008
Q7009
Q7010
D7000 1PS184-115
D7001 1PS184-115
D7002 UDZSTE-174.7B
D7010 1SS355TE
D7015 1SS355TE
L7000 10uH
L7001 10uH
L7002 10uH
L7003 10uH
L5800 10uH
L5802 10uH
X7000 2.696MHz
Q5800 MSD601-RST1
Q5801 MSB709-RT1
Q5802 MSD601-RST1
Q5803
Q5804 MSB709-RT1
Q5805 MSD601-RST1
D5800 1PS184-115
D5801 UDZS-TE17-9.1B
FB7000 0
FB7001 0
FB7002 0
ABL_IK
A 7/9
IK_F/B
IK
ABL
VP_BE
V_SINE
HC_PARA
MP_PARA
DF_PARA
E/W
V_PARA2
V_PARA1
V_SAW0
V_SAW1
V_DRV-
V_DRV+
V_DEF
A 6/9
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

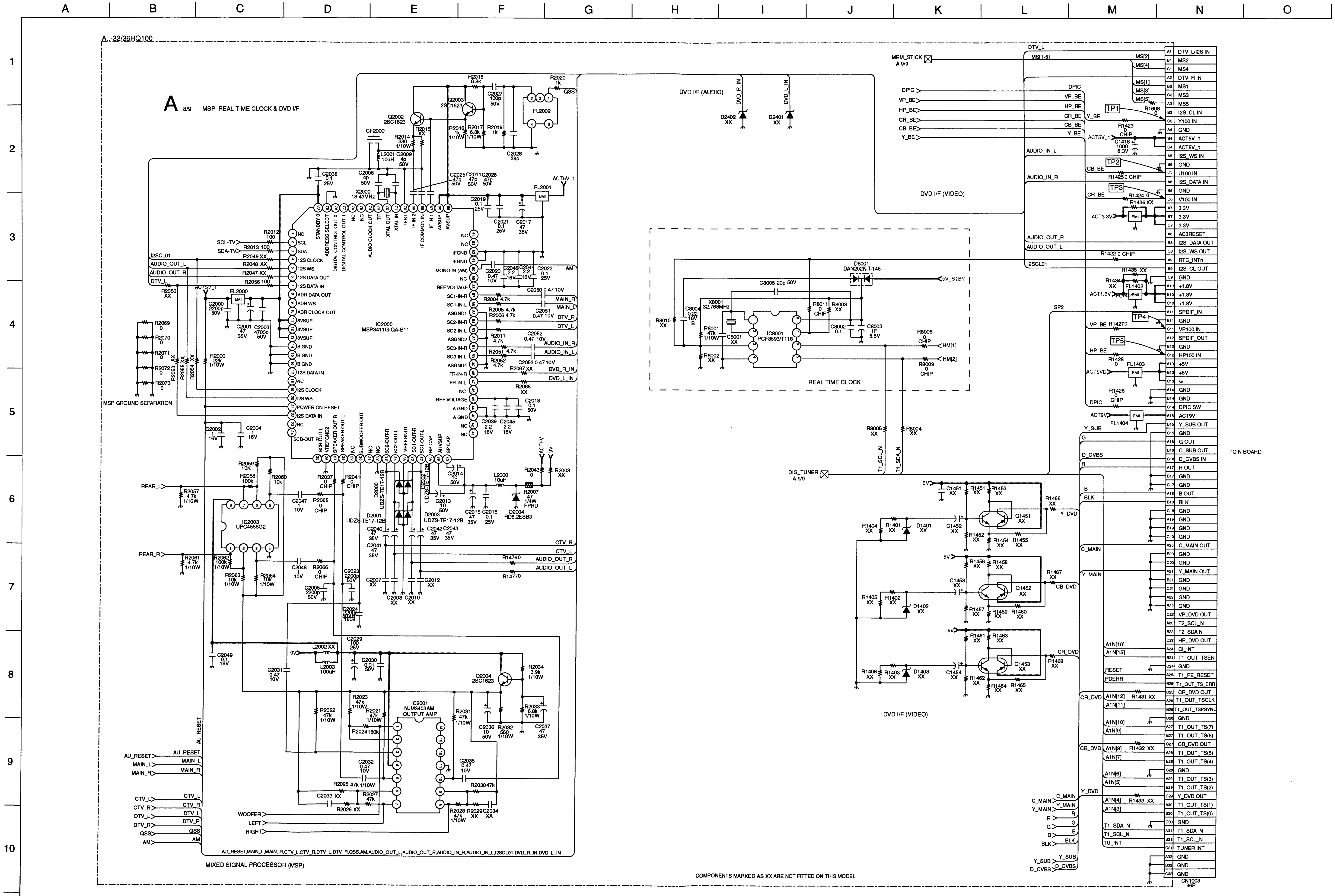
~ A Board Schematic Diagram [Backend] Page 5/9 ~


A-32/36HQ100
A 6/9 DEFLECTION, ROTATION
DEF_DAC A 4/9
V_DEF A 5/9
DEF A 7/9
V_SINE
HC_PARA
MP_PARA
DF_PARA
E/W
V_PARA2
V_PARA1
V_SAW0
V_SAW1
V_DRV-
V_DRV+
SDA
SCL
R_MB
G_MB
B_MB
BLK_MB
DEFLECTION DAC
IC5000 MB88141APF-ER
SFC_YSYM
R5012
R5008 100 1/10W
R5010 100 CHIP
R5011 100 1/10W
R5013 100 1/10W
R5014
R5018 100 1/10W
R5017 100 1/10W
5V
C5003 10 50V
C5002 0.1 16V
H_CENTRE
OP_PH
DF_PH
R5001
R5002 10K
R5003
R5004
R5009
R5000
R5015
R5005
9V
C5001 10 50V
C5000 10 50V
HC_PARA
MP_PARA
ROTATION
IC5100 LA6510
C5151 0.1 50V MPS
R5151 270 1W RS
C5152 0.1 50V MPS
R5107 15 1/4W FPRD
C5104 47 35V
C5105 0.1 25V
R5152 1 1/4W
R5153 1k 1/10W RN-CP
C5153 0.01 25V
C5101 47 35V
C5103 0.1 25V
-15V
C5102 0.1 50V MPS
R5106 470 2W RS
R5105 1.5 1/4W FPRD
R5102 6.8k 1/10W
R5103 560 1/10W
R5104 1 1/4W
R5156 1k 1/10W RN-CP
C5154 0.1 16V
R5157 22k 1/10W RN-CP
R5100 51k 1/10W RN-CP
C5100 0.1 16V
R5101 1.8k 1/10W RN-CP
C5155 XX
R5155 XX
R5154 10k 1/10W RN-CP
VPIN+
VPIN-
ROT-
ROT+
VERTICAL
IC5400 STV9379A
TP14
TP13
C5402 470p 500V
C5406 100 50V
D5400 RD18ESB2
C5401 330 25V
C5400 4700p 50V
C5410 100 50V
C5409 0.01 25V
C5404 0.001 400V PT
R5400 5.1K
R5401 3.3K
C5403 4700p
D5401 GP08DPKG23
9V
R5414
R5415
D5404 BAS316-115
D5403 BAS316-115
C5413 0.01 25V
C5412 10 50V
R5407 3.3k 1/10W
Q5400 IRF620
D5402 RD15ESB2
C5405 0.01 25V
C5408 0.1 100V
C5411 0.47 100V MPS
R5408 220 3W RS
L5400 8.2uH
R5405 4.7 1/4W FPRD
C5407 0.22 100V MPS
R5404 1.5 1/4W FPRD
R5413
R5412 XX
R5411
R5410 1.8 1/2W RN
R5409 1.8 1/2W RN
R5406 22 1/4W
TH5400
R5403 3.3K
R5402 5.1K
15V
-15V
V_PROT
V-
V+
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

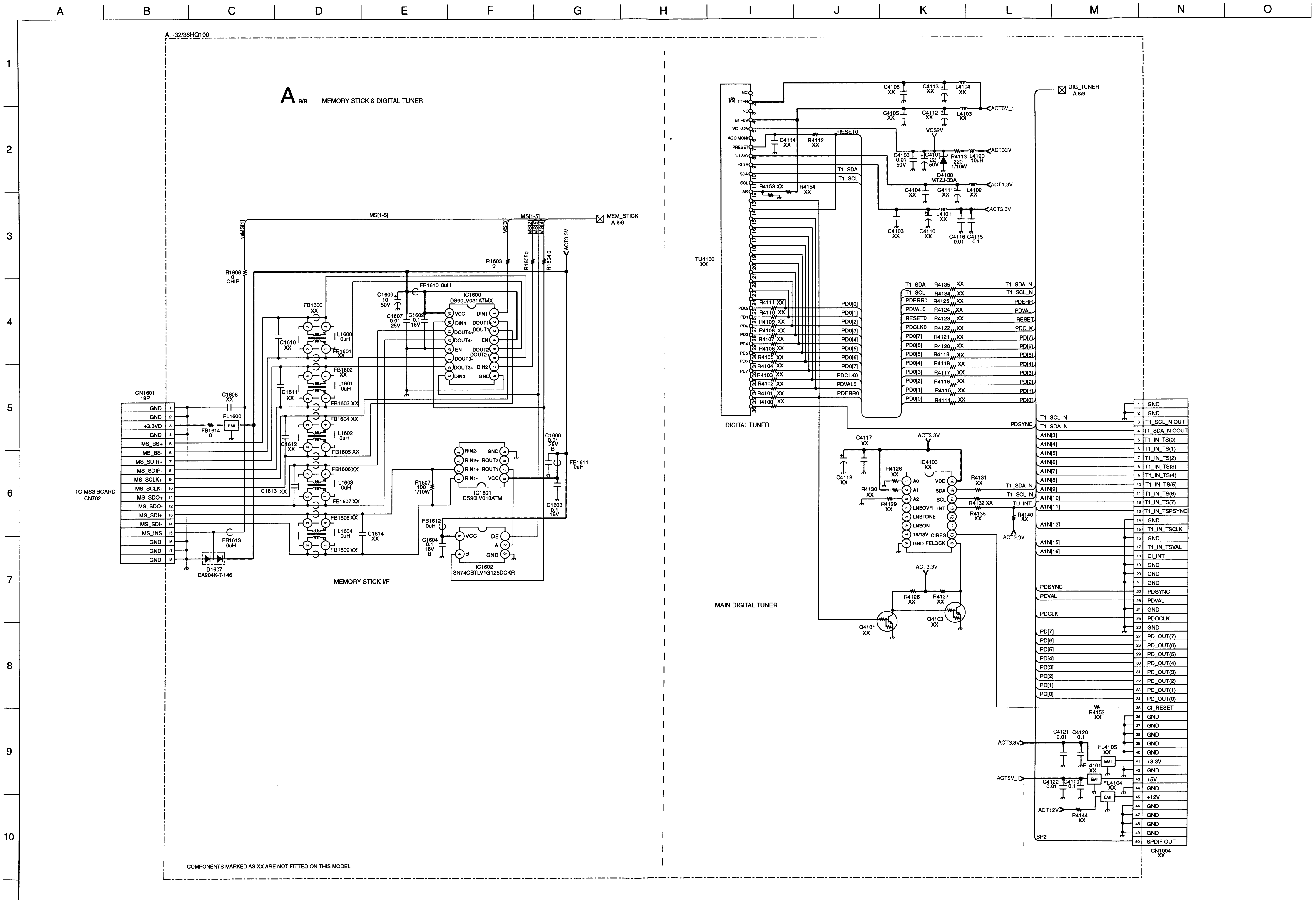
~ A Board Schematic Diagram [Deflection, Rotation] Page 6/9 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
A_-32/36HQ100
CN5001
8P
WHT
8 15V_PULSE
7 GND
6 +15v
5 GND
4 -15v
3 V-
2 GND
1 V+
TO D1 BOARD
CN8612
IC5600
BA12T
OUT
VCC
GND
15V
12V
C5603
100
25V
C5602
470
25V
V-
V+
IC5601
LM7912CT
O
G
I
-12V
15V
C5605
47
35V
C5604
100
25V
CN5002
7P
WHT
VM
1 VM
2 GND
9V
3 +9V
4 NC
QP-
5 QP-
6 NC
QP+
7 QP+
TO VM BOARD
CN7401
VPIN+
VPIN-
1 V-PIN+
2 N/C
3 V-PIN-
TO VM BOARD
CN7405
CN5013
3P
TP10
TP11
TP12
R_OUT
G_OUT
B_OUT
1 R_OUT
2 GND
3 G_OUT
4 GND
5 B_OUT
6 GND
7 +12V
8 IK
T0 C2 BOARD
CN7301
L5600
10uH
12V
C5600
47
35V
C5601
0.22
16V
IK
CN5003
8P
WHT
CN5012
1P
GND TAG
GND
1
THERMAL COMPENSATION CIRCUIT FOR SF BOARD
5V
R5019 100k 1/10W
TO SF2 BOARD
CN5500
TH5000
2P
+5V 1
N/C 2
EN_DETECT 3
IC5001
NJM2904M
ROTATION COIL
+V-PIN DRIVE
8
7
6
5
1
2
3
4
R5007
620K
R5016
620K
C5005
10
50V
C5006
0.1
R5006
5.6K
C5004
10
50V
R5020
10K
CN5010
TO SF BOARD
CN5509
N/C 1
TEMP_F/B 2
N/C 3
A 7/9 GENERAL INTERFACE
DF_PARA
MP_PARA
E/W
HC_PARA
H_DRIVE
AFC_PULSE
ABL
X_RAY
CN5004
10P
WHT
1 DF_PARA
2 MP_PARA
3 E/W
4 HC_PARA
5 H_DRIVE
6 AFC_PULSE
7 ABL
8 X_RAY
9 GND
10 ZOOM_COMP
TO D1 BOARD
CN8500
CN5005
6P
WHT
15V
-15V
1 N/C
2 +15V
3 GND
4 GND
5 GND
6 -15V
TO SF BOARD
CN5505
IK_F/B
IK
CN5006
12P
HP_BE
VP_BE
PSG
5V
ABL
SCL
SDA
1 HP
2 VP
3 PSG
4 ABL
5 +5V
6 SCL
7 SDA
8 N/C
9 N/C
10 IK_F/B
11 GND
12 GND
TO SF BOARD
CN5508
ABL_IK
A 5/9
ABL
IK_F/B
CN5007
3P
BLK
ROT-
ROT+
1 ROT-
2 NC
3 ROT+
TO ROTATION COIL
DF_DRIVE
H_CENTRE
9V
1 PRE_RGB
2 DF_DRIVE
3 H_CENTRE
4 NC
5 +9V
6 GND
7 GND
TO D1 BOARD
CN8616
CN5008
7P
WHT
15V
12V
X_RAY
HOP_OVP
AFC_PULSE
DF_DRIVE
ABL
1 +15V
3 +12V
4 ABL / UVP PROT
5 HOP OVP
6 AFC PULSE
7 DF DRIVE
8 ABL
9 GND
10 GND
11 GND
TO D2 BOARD
CN6801
CN5009
10P
DEF
A 6/9
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [General Interface] Page 7/9 ~


A..-32/36HQ100
A 8/9 MSP, REAL TIME CLOCK & DVD I/F
IC2000 MSP3411G-QA-B11
X2000 18.43MHz
FL2001
FL2002
Q2002 2SC1623
Q2003 2SC1623
QSS
ACT5V_1
SCL-TV
SDA-TV
I2SCL01
AUDIO_OUT_L
AUDIO_OUT_R
DTV_L
FL2000
MSP GROUND SEPARATION
IC2003 UPC4558G2
REAR_L
REAR_R
D2000 UDZS-TE17-12B
D2001 UDZS-TE17-12B
D2002 UDZS-TE17-12B
D2003 UDZS-TE17-12B
D2004 RD8.2ESB3
L2000 10uH
L2002
L2003 100uH
Q2004 2SC1623
IC2001 NJM3403AM OUTPUT AMP
AU_RESET
MAIN_L
MAIN_R
CTV_L
CTV_R
DTV_L
DTV_R
QSS
AM
WOOFER
LEFT
RIGHT
AU_RESET,MAIN_L,MAIN_R,CTV_L,CTV_R,DTV_L,DTV_R,QSS,AM,AUDIO_OUT_L,AUDIO_OUT_R,AUDIO_IN_R,AUDIO_IN_L,I2SCL01,DVD_R_IN,DVD_L_IN
MIXED SIGNAL PROCESSOR (MSP)
DVD I/F (AUDIO)
DVD_R_IN
DVD_L_IN
D2402
D2401
IC8001 PCF8593/T118
X8001 32.768MHz
D8001 DAN202K-T-146
5V_STBY
HM[1]
HM[2]
REAL TIME CLOCK
T1_SCL_N
T1_SDA_N
DIG_TUNER A 9/9
MEM_STICK A 9/9
DPIC
VP_BE
HP_BE
CR_BE
CB_BE
Y_BE
DVD I/F (VIDEO)
TP1
TP2
TP3
TP4
TP5
FL1402
FL1403
FL1404
Q1451
Q1452
Q1453
D1401
D1402
D1403
Y_DVD
CB_DVD
CR_DVD
C_MAIN
Y_MAIN
R
G
B
BLK
Y_SUB
D_CVBS
DVD I/F (VIDEO)
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
A1 DTV_L/I2S IN
B1 MS2
C1 MS4
A2 DTV_R IN
B2 MS1
C2 MS3
A3 MS5
B3 I2S_CL IN
C3 Y100 IN
A4 GND
B4 ACT5V_1
C4 ACT5V_1
A5 I2S_WS IN
B5 GND
C5 U100 IN
A6 I2S_DATA IN
B6 GND
C6 V100 IN
A7 3.3V
B7 3.3V
C7 3.3V
A8 AC3RESET
B8 I2S_DATA OUT
C8 I2S_WS OUT
A9 RTC_INTn
B9 I2S_CL OUT
C9 GND
A10 +1.8V
B10 +1.8V
C10 +1.8V
A11 SPDIF_IN
B11 GND
C11 VP100 IN
A12 SPDIF_OUT
B12 GND
C12 HP100 IN
A13 +5V
B13 +5V
C13 5V
A14 GND
B14 GND
C14 DPIC SW
A15 ACT9V
B15 Y_SUB OUT
C15 GND
A16 G OUT
B16 C_SUB OUT
C16 D_CVBS IN
A17 R OUT
B17 GND
C17 GND
A18 B OUT
B18 BLK
C18 GND
A19 GND
B19 GND
C19 GND
A20 C_MAIN OUT
B20 GND
C20 GND
A21 Y_MAIN OUT
B21 GND
C21 GND
A22 GND
B22 GND
C22 VP_DVD OUT
A23 T2_SCL_N
B23 T2_SDA N
C23 HP_DVD OUT
A24 CI_INT
B24 T1_OUT_TSEN
C24 GND
A25 T1_FE_RESET
B25 T1_OUT_TS_ERR
C25 CR_DVD OUT
A26 T1_OUT_TSCLK
B26 T1_OUT_TSPSYNC
C26 GND
A27 T1_OUT_TS(7)
B27 T1_OUT_TS(6)
C27 CB_DVD OUT
A28 T1_OUT_TS(5)
B28 T1_OUT_TS(4)
C28 GND
A29 T1_OUT_TS(3)
B29 T1_OUT_TS(2)
C29 Y_DVD OUT
A30 T1_OUT_TS(1)
B30 T1_OUT_TS(0)
C30 GND
A31 T1_SDA_N
B31 T1_SCL_N
C31 TUNER INT
A32 GND
B32 GND
C32 GND
CN1003 96P
TO N BOARD

~ A Board Schematic Diagram [MSP, Real Time Clock & DVD I/F] Page 8/9 ~


A
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C
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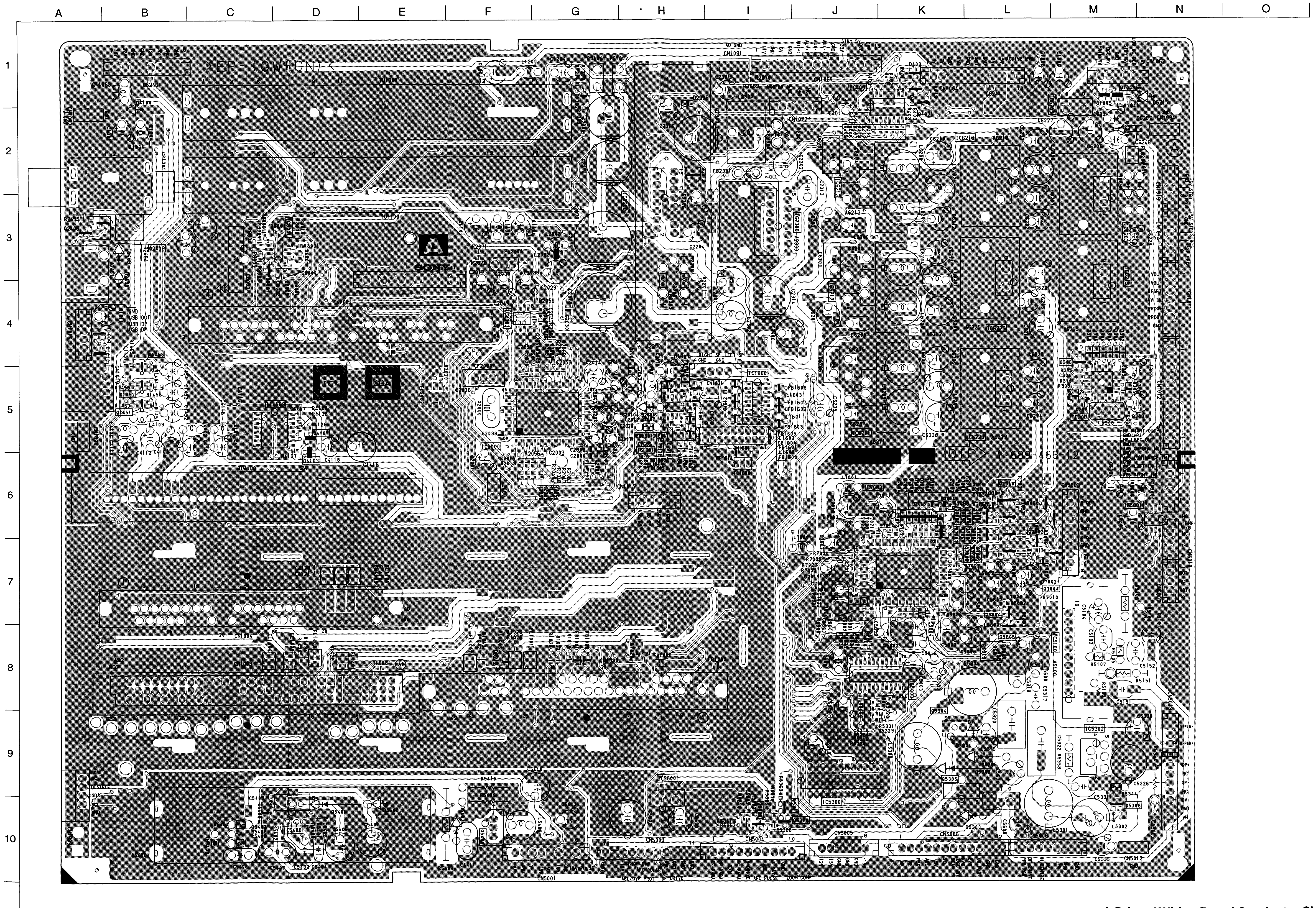
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
A_-32/36HQ100
A 9/9 MEMORY STICK & DIGITAL TUNER
MS[1-5]
MEM_STICK A 8/9
insMS[1]
MS[3]
MS[1-5]
MS[2]
MS[5]
MS[1]
MS[4]
ACT3.3V
R1603 0
R16050
R1604 0
R1606 0 CHIP
FB1610 0uH
C1609 10 50V
IC1600 DS90LV031ATMX
C1607 0.01 25V
C1602 0.1 16V
VCC
DIN1
DIN4
DOUT1+
DOUT4+
DOUT1-
DOUT4-
EN
DOUT2-
DOUT2+
DOUT3-
DOUT3+
DIN2
DIN3
GND
FB1600 XX
L1600 0uH
FB1601 XX
C1610 XX
FB1602 XX
L1601 0uH
C1611 XX
FB1603 XX
FB1604 XX
L1602 0uH
C1612 XX
FB1605 XX
FB1606 XX
L1603 0uH
C1613 XX
FB1607 XX
FB1608 XX
L1604 0uH
C1614 XX
FB1609 XX
CN1601 18P
1 GND
2 GND
3 +3.3VD
4 GND
5 MS_BS+
6 MS_BS-
7 MS_SDIR+
8 MS_SDIR-
9 MS_SCLK+
10 MS_SCLK-
11 MS_SDO+
12 MS_SDO-
13 MS_SDI+
14 MS_SDI-
15 MS_INS
16 GND
17 GND
18 GND
TO MS3 BOARD CN702
C1608 XX
FL1600
EMI
FB1614 0
FB1613 0uH
D1607 DA204K-T-146
RIN2-
RIN2+
RIN1+
RIN1-
ROUT2
ROUT1
VCC
GND
IC1601 DS90LV018ATM
R1607 100 1/10W
C1606 0.01 25V B
FB1611 0uH
C1603 0.1 16V
FB1612 0uH
C1604 0.1 16V B
DE
A
B
IC1602 SN74CBTLV1G125DCKR
MEMORY STICK I/F
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
NC
+5V SPLITTER
NC
B1 +5V
VC +32V
AGC MONI
PRESET
(+1.8V)
+3.3V
SDA
SCL
AS
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
TU4100 XX
DIGITAL TUNER
C4106 XX
C4113 XX
L4104 XX
C4105 XX
C4112 XX
L4103 XX
ACT5V_1
C4114 XX
R4112 XX
RESET0
VC32V
C4100 0.01 50V
C4101 22 50V
R4113 220 1/10W
L4100 10uH
ACT33V
D4100 MTZJ-33A
T1_SDA
T1_SCL
R4153 XX
R4154 XX
C4104 XX
C4111 XX
L4102 XX
ACT1.8V
L4101 XX
ACT3.3V
C4103 XX
C4110 XX
C4116 0.01
C4115 0.1
R4111 XX
R4110 XX
R4109 XX
R4108 XX
R4107 XX
R4106 XX
R4105 XX
R4104 XX
R4103 XX
R4102 XX
R4101 XX
R4100 XX
PD0[0]
PD0[1]
PD0[2]
PD0[3]
PD0[4]
PD0[5]
PD0[6]
PD0[7]
PDCLK0
PDVAL0
PDERR0
T1_SDA R4135 XX T1_SDA_N
T1_SCL R4134 XX T1_SCL_N
PDERR0 R4125 XX PDERR
PDVAL0 R4124 XX PDVAL
RESET0 R4123 XX RESET
PDCLK0 R4122 XX PDCLK
PD0[7] R4121 XX PD[7]
PD0[6] R4120 XX PD[6]
PD0[5] R4119 XX PD[5]
PD0[4] R4118 XX PD[4]
PD0[3] R4117 XX PD[3]
PD0[2] R4116 XX PD[2]
PD0[1] R4115 XX PD[1]
PD0[0] R4114 XX PD[0]
DIG_TUNER A 8/9
PDSYNC
T1_SCL_N
T1_SDA_N
A1N[3]
A1N[4]
A1N[5]
A1N[6]
A1N[7]
A1N[8]
A1N[9]
A1N[10]
A1N[11]
A1N[12]
A1N[15]
A1N[16]
C4117 XX
ACT3.3V
IC4103 XX
C4118 XX
R4128 XX
R4130 XX
R4129 XX
A0
A1
A2
LNBOVR
LNBTONE
LNBON
18/13V
GND
VDD
SDA
SCL
INT
CIRES
FELOCK
R4131 XX
R4132 XX
R4138 XX
R4140 XX
T1_SDA_N
T1_SCL_N
TU_INT
ACT3.3V
R4126 XX
R4127 XX
Q4101 XX
Q4103 XX
MAIN DIGITAL TUNER
PDSYNC
PDVAL
PDCLK
PD[7]
PD[6]
PD[5]
PD[4]
PD[3]
PD[2]
PD[1]
PD[0]
R4152 XX
ACT3.3V
C4121 0.01
C4120 0.1
FL4105 XX
EMI
FL4101 XX
ACT5V_1
C4122 0.01
C4119 0.1
FL4104 XX
ACT12V
R4144 XX
SP2
1 GND
2 GND
3 T1_SCL_N OUT
4 T1_SDA_N OOUT
5 T1_IN_TS(0)
6 T1_IN_TS(1)
7 T1_IN_TS(2)
8 T1_IN_TS(3)
9 T1_IN_TS(4)
10 T1_IN_TS(5)
11 T1_IN_TS(6)
12 T1_IN_TS(7)
13 T1_IN_TSPSYNC
14 GND
15 T1_IN_TSCLK
16 GND
17 T1_IN_TSVAL
18 CI_INT
19 GND
20 GND
21 GND
22 PDSYNC
23 PDVAL
24 GND
25 PDOCLK
26 GND
27 PD_OUT(7)
28 PD_OUT(6)
29 PD_OUT(5)
30 PD_OUT(4)
31 PD_OUT(3)
32 PD_OUT(2)
33 PD_OUT(1)
34 PD_OUT(0)
35 CI_RESET
36 GND
37 GND
38 GND
39 GND
40 GND
41 +3.3V
42 GND
43 +5V
44 GND
45 +12V
46 GND
47 GND
48 GND
49 GND
50 SPDIF OUT
CN1004 XX

~ A Board Schematic Diagram [Memory Stick & Digital Tuner] Page 9/9 ~


A
B
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4
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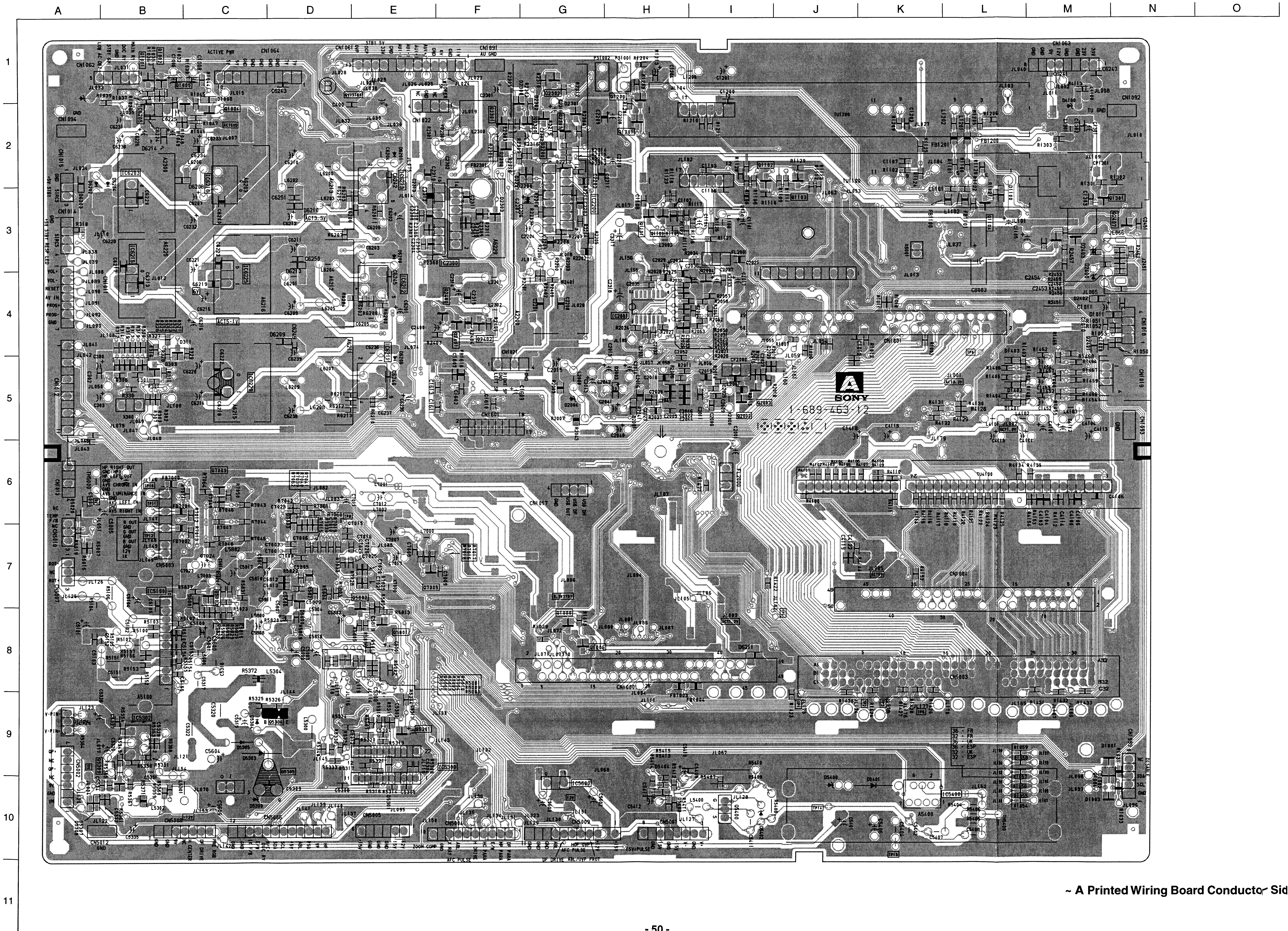
6
7
8
9
10
11
>EP-(GW+GN)<
A
SONY
ICT
CBA
DIP
1-689-463-12
TU1200
TU1100
TU4100
CN1001
CN1004
CN1003
CN5001
CN5009
CN5004
CN5005
CN5006
CN5008
CN5012

~ A Printed Wiring Board Conductor Side A ~


A
B
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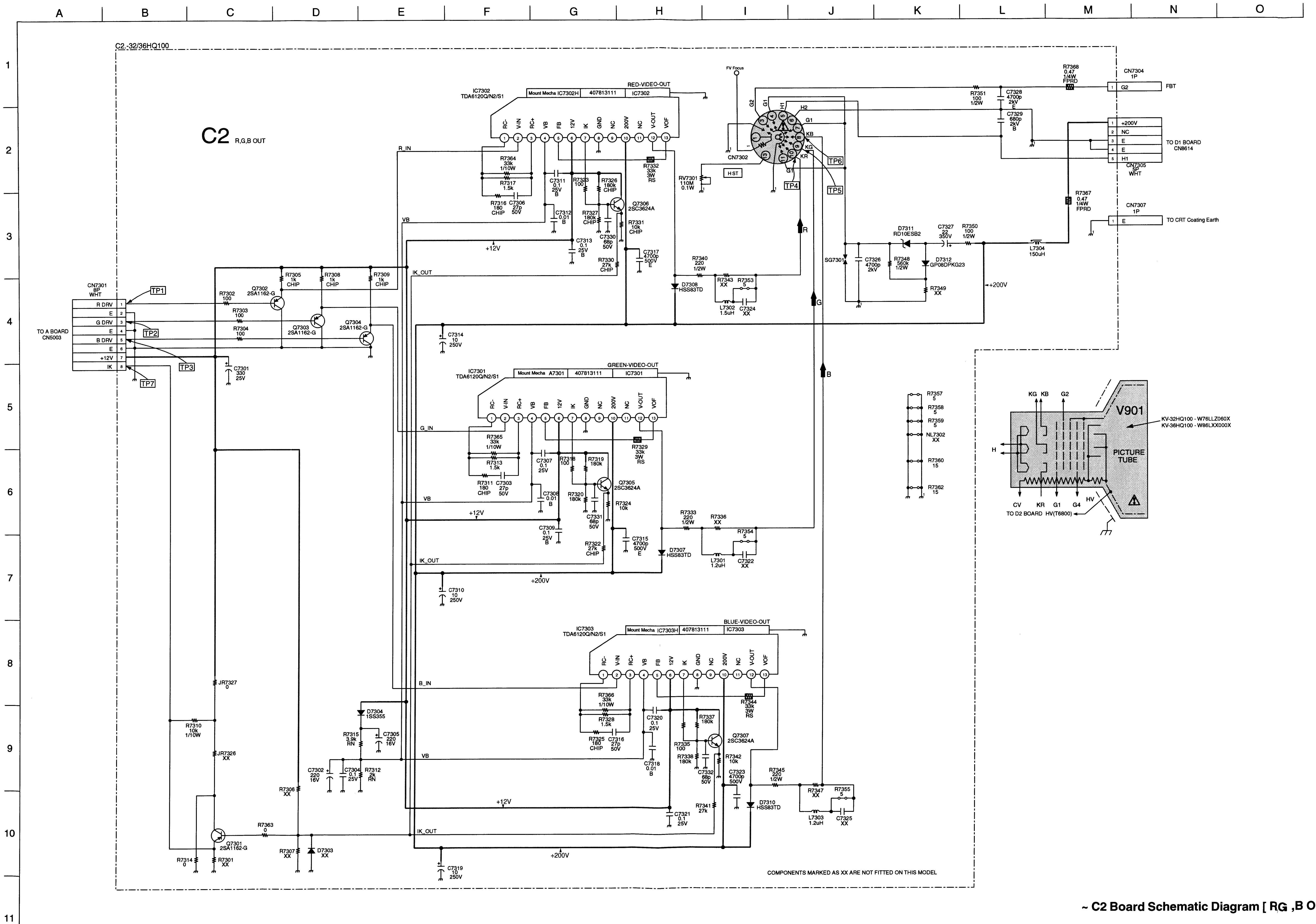
9
10
11
A
SONY
1-689-463-12

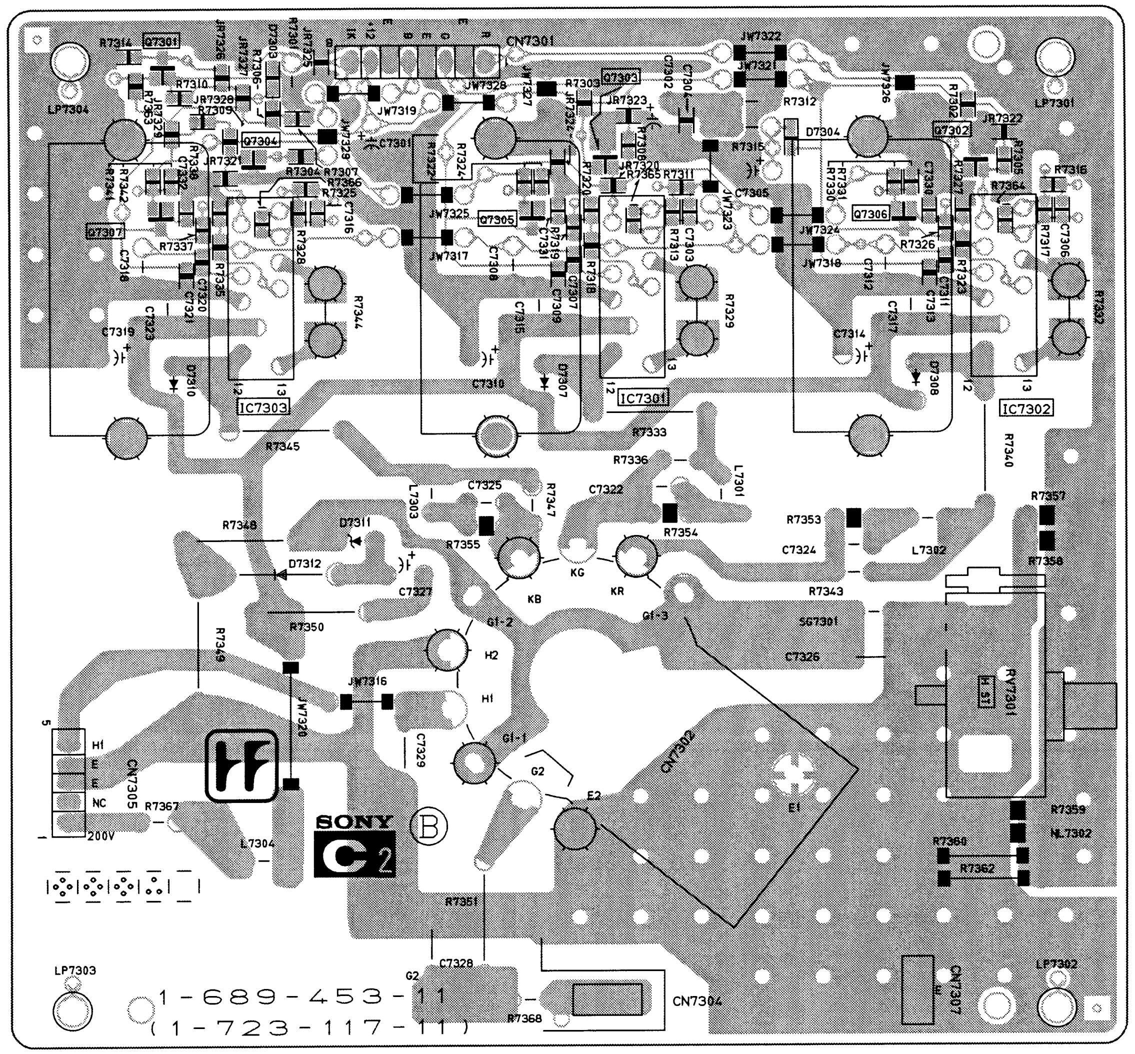
~ A Printed Wiring Board Conductor Side B ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
C2.-32/36HQ100
C2 R,G,B OUT
IC7302
TDA6120Q/N2/S1
Mount Mecha IC7302H
407813111
IC7302
RED-VIDEO-OUT
RC-
V-IN
RC+
VB
FB
12V
IK
GND
NC
200V
NC
V-OUT
VOF
R_IN
R7364 33k 1/10W
R7317 1.5k
R7316 180 CHIP
C7306 27p 50V
C7311 0.1 25V B
R7323 100
R7326 180k CHIP
Q7306 2SC3624A
R7332 33k 3W RS
C7312 0.01 B
R7327 180k CHIP
R7331 10k CHIP
C7330 68p 50V
C7313 0.1 25V B
R7330 27k CHIP
C7317 4700p 500V E
VB
+12V
IK_OUT
FV Focus
G2
G1
H1
H2
G1
KB
KG
KR
G1
CN7302
RV7301 110M 0.1W
HST
TP4
TP5
TP6
R7351 100 1/2W
C7328 4700p 2kV E
C7329 680p 2kV B
R7368 0.47 1/4W FPRD
CN7304 1P
G2
FBT
+200V
NC
E
E
H1
CN7305 5P WHT
TO D1 BOARD CN8614
R7367 0.47 1/4W FPRD
CN7307 1P
E
TO CRT Coating Earth
D7311 RD10ESB2
C7327 22 350V
R7350 100 1/2W
L7304 150uH
SG7301
C7326 4700p 2kV
R7348 560k 1/2W
D7312 GP08DPKG23
R7349 XX
+200V
R
G
B
R7340 220 1/2W
R7343 XX
R7353 5
D7308 HSS83TD
L7302 1.5uH
C7324 XX
CN7301 8P WHT
R DRV
E
G DRV
E
B DRV
E
+12V
IK
TO A BOARD CN5003
TP1
TP2
TP3
TP7
R7302 100
Q7302 2SA1162-G
R7305 1k CHIP
R7308 1k CHIP
R7309 1k CHIP
R7303 100
R7304 100
Q7303 2SA1162-G
Q7304 2SA1162-G
C7301 330 25V
C7314 10 250V
IC7301
TDA6120Q/N2/S1
Mount Mecha A7301
407813111
IC7301
GREEN-VIDEO-OUT
G_IN
R7365 33k 1/10W
R7313 1.5k
R7311 180 CHIP
C7303 27p 50V
C7307 0.1 25V
R7318 100
R7319 180k
R7329 33k 3W RS
Q7305 2SC3624A
C7308 0.01 B
R7320 180k
C7331 68p 50V
R7324 10k
C7309 0.1 25V B
R7322 27k CHIP
C7315 4700p 500V E
D7307 HSS83TD
R7333 220 1/2W
R7336 XX
R7354 5
L7301 1.2uH
C7322 XX
IK_OUT
+200V
C7310 10 250V
R7357 5
R7358 5
R7359 5
NL7302 XX
R7360 15
R7362 15
KG
KB
G2
V901
H
PICTURE TUBE
CV
KR
G1
G4
HV
TO D2 BOARD HV(T6800)
KV-32HQ100 - W76LLZ060X
KV-36HQ100 - W86LXX000X
IC7303
TDA6120Q/N2/S1
Mount Mecha IC7303H
407813111
IC7303
BLUE-VIDEO-OUT
B_IN
R7366 33k 1/10W
R7328 1.5k
R7325 180 CHIP
C7316 27p 50V
C7320 0.1 25V
R7337 180k
R7344 33k 3W RS
Q7307 2SC3624A
R7335 100
R7338 180k
C7318 0.01 B
C7332 68p 50V
R7342 10k
C7323 4700p 500V
R7341 27k
C7321 0.1 25V
D7310 HSS83TD
R7345 220 1/2W
R7347 XX
R7355 5
L7303 1.2uH
C7325 XX
JR7327 0
R7310 10k 1/10W
JR7326 XX
D7304 1SS355
R7315 3.9k RN
C7305 220 16V
C7302 220 16V
C7304 0.1 25V
R7312 2k RN
R7306 XX
VB
+12V
IK_OUT
+200V
R7363 0
Q7301 2SA1162-G
R7314 0
R7301 XX
R7307 XX
D7303 XX
C7319 10 250V

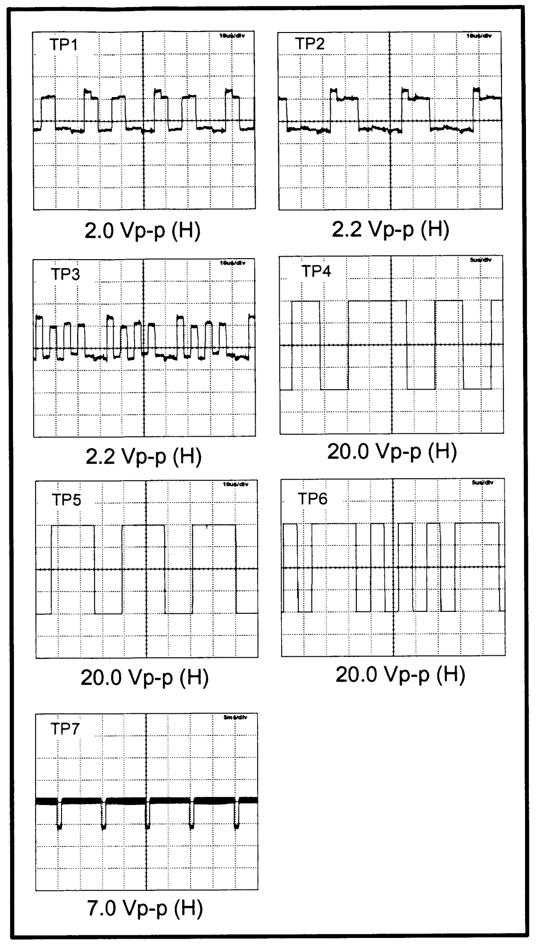
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ C2 Board Schematic Diagram [RG ,B Out] ~

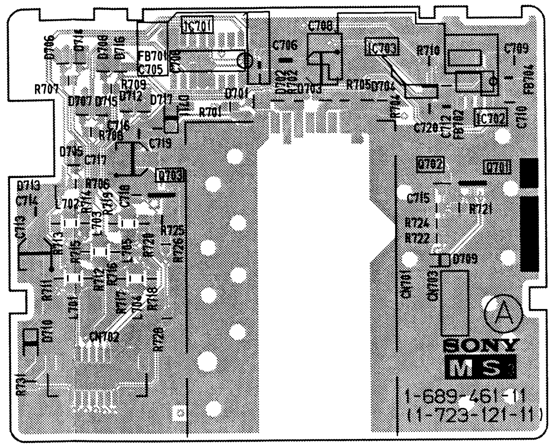
~ C2 Printed Wiring Board Conductor Side ~


CN7301
LP7304
LP7301
LP7303
LP7302
IC7301
IC7302
IC7303
CN7302
CN7304
CN7305
CN7307
RY7301
SONY
C2
B
1-689-453-11
(1-723-117-11)

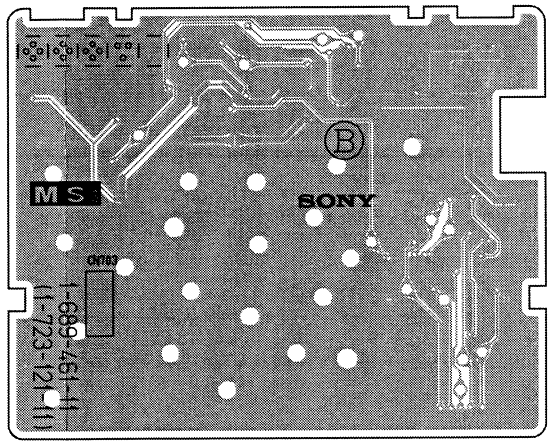
~ C2 Board Waveforms ~



~ MS3 Printed Wiring Board Conductor Side A ~


IC701
IC703
IC702
CN702
A
SONY
MS
1-689-461-11
(1-723-121-11)

~ MS3 Printed Wiring Board Conductor Side B ~


B
MS
SONY
CN703
1-689-461-11
(1-723-121-11)

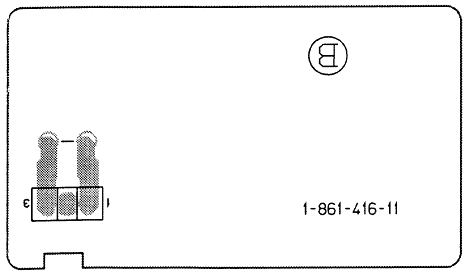
~ C2 Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)
Q7301	5.5	7.1	0
Q7306	10.3	11.3	12.0
Q7302	3.6	2.8	0
Q7303	3.6	2.9	0
Q7304	3.7	2.9	0
Q7307	10.4	11.4	12.0
Q7305	9.4	10.5	12.0

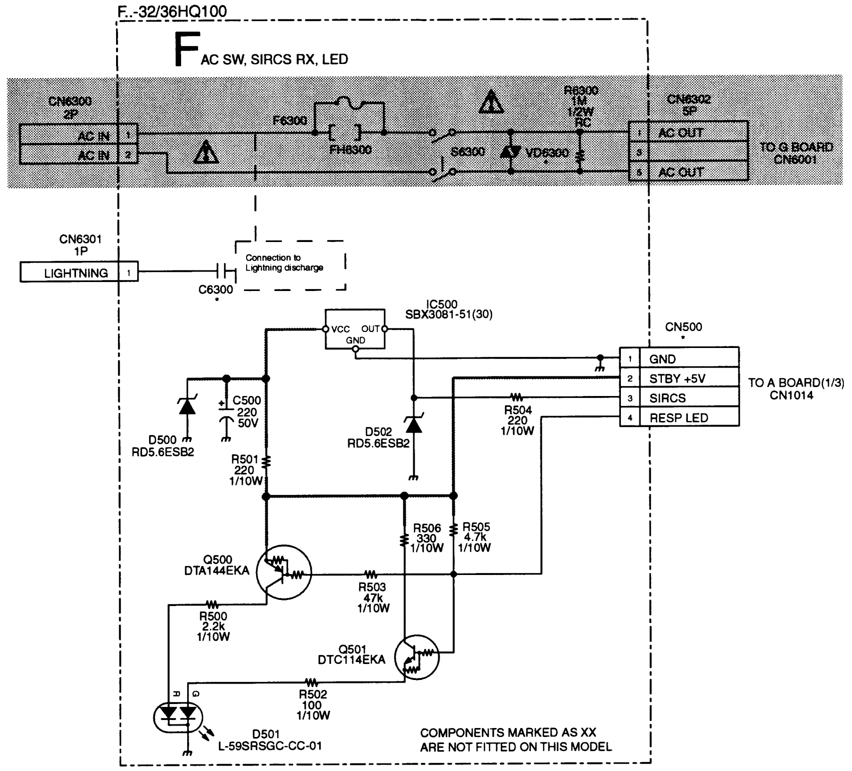
~ C2 Board IC Voltage Table ~

Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)
IC7302	1	2.7	IC7301	1	2.7	IC7303	1	2.7
	2	3.6		2	3.6		2	3.8
	3	2.9		3	3.0		3	2.9
	4	3.7		4	3.7		4	3.7
	5	2.0		5	2.1		5	2.0
	6	12.0		6	11.9		6	12.0
	7	11.4		7	10.7		7	11.5
	8	0		8	0		8	0
	10	211.6		10	211.5		10	211.6
	12	153.1		12	151.0		12	143.0
	13	145.0		13	142.6		13	136.4

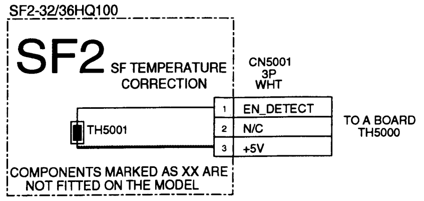
~ SF2 Printed Wiring Board Conductor Side ~


B
1-861-416-11

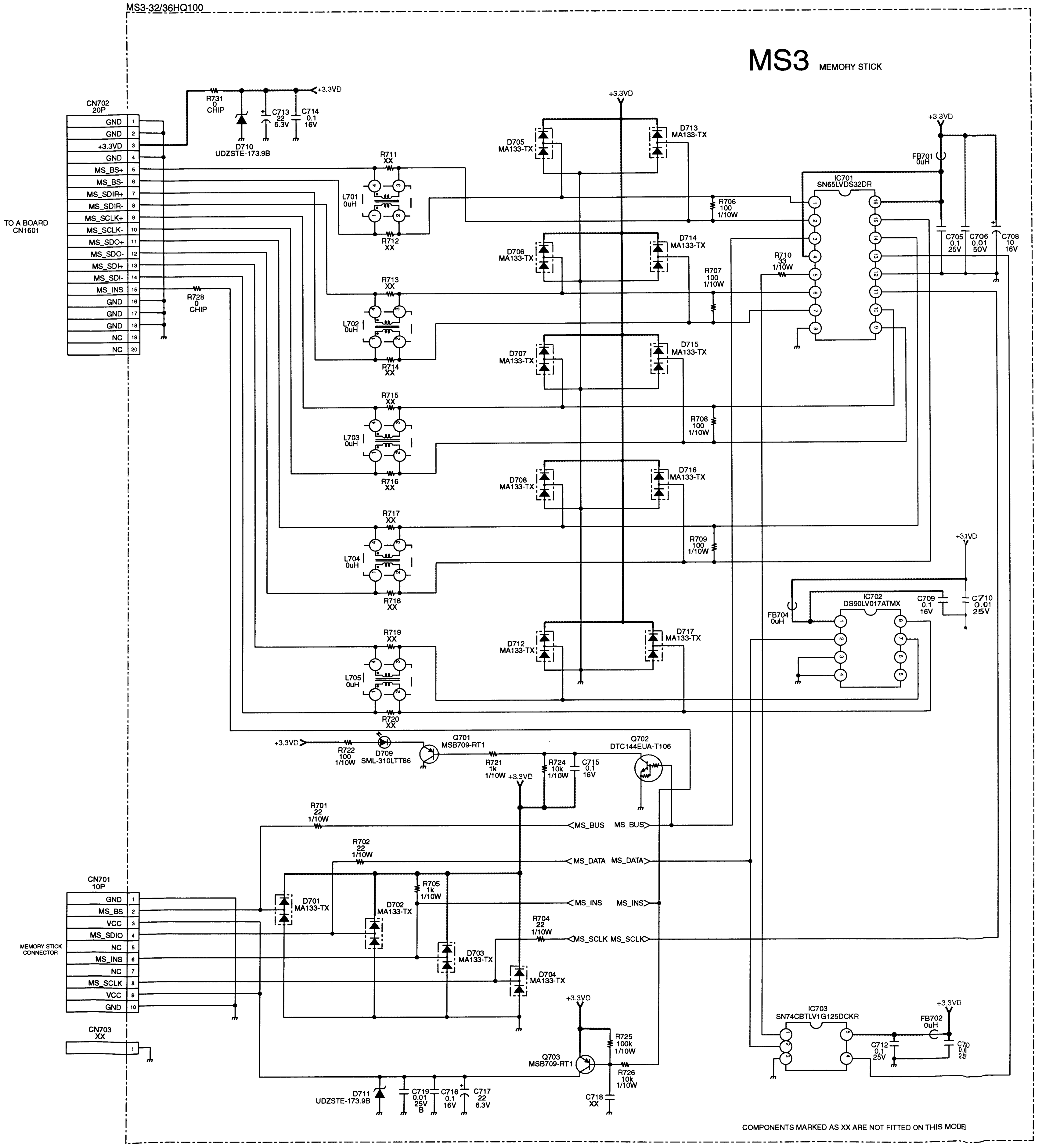
~ F Board Schematic Diagram [AC SW, SIRCS RX, LED] ~


F.-32/36HQ100
F AC SW, SIRCS RX, LED
CN6300 2P
AC IN
AC IN
F6300
FH6300
S6300
VD6300
R6300 1M 1/2W RC
CN6302 5P
AC OUT
AC OUT
TO G BOARD CN6001
CN6301 1P
LIGHTNING
C6300
Connection to Lightning discharge
IC500 SBX3081-51(30)
VCC OUT GND
CN500
GND
STBY +5V
SIRCS
RESP LED
TO A BOARD(1/3) CN1014
C500 220 50V
D500 RD5.6ESB2
D502 RD5.6ESB2
R504 220 1/10W
R501 220 1/10W
R506 330 1/10W
R505 4.7k 1/10W
Q500 DTA144EKA
R503 47k 1/10W
R500 2.2k 1/10W
Q501 DTC114EKA
R502 100 1/10W
D501 L-59SRSGC-CC-01
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

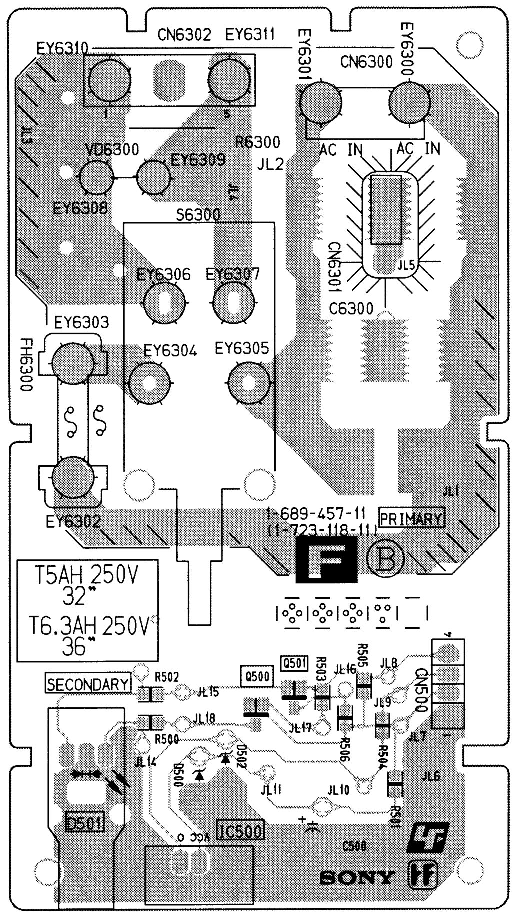
~ SF2 Board Schematic Diagram [SF Temperature Correction] ~


SF2-32/36HQ100
SF2 SF TEMPERATURE CORRECTION
CN5001 3P WHT
EN_DETECT
N/C
+5V
TH5001
TO A BOARD TH5000
COMPONENTS MARKED AS XX ARE NOT FITTED ON THE MODEL

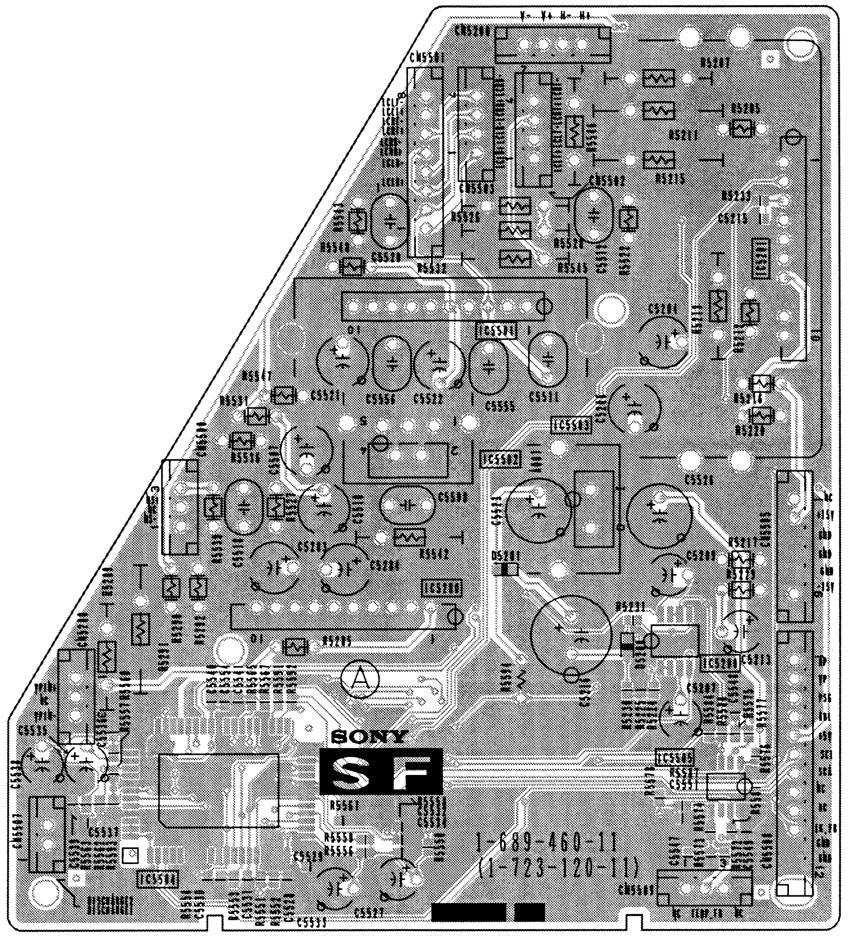
~ MS3 Board Schematic Diagram [Memory Stick] ~


MS3-32/36HQ100
MS3 MEMORY STICK
CN702 20P
GND
GND
+3.3VD
GND
MS_BS+
MS_BS-
MS_SDIR+
MS_SDIR-
MS_SCLK+
MS_SCLK-
MS_SDO+
MS_SDO-
MS_SDI+
MS_SDI-
MS_INS
GND
GND
GND
NC
NC
TO A BOARD CN1601
R731 0 CHIP
+3.3VD
C713 22 6.3V
C714 0.1 16V
D710 UDZSTE-173.9B
R728 0 CHIP
R711 XX
R712 XX
R713 XX
R714 XX
R715 XX
R716 XX
R717 XX
R718 XX
R719 XX
R720 XX
L701 0uH
L702 0uH
L703 0uH
L704 0uH
L705 0uH
D705 MA133-TX
D706 MA133-TX
D707 MA133-TX
D708 MA133-TX
D712 MA133-TX
D713 MA133-TX
D714 MA133-TX
D715 MA133-TX
D716 MA133-TX
D717 MA133-TX
R706 100 1/10W
R707 100 1/10W
R708 100 1/10W
R709 100 1/10W
R710 33 1/10W
IC701 SN65LVDS32DR
FB701 0uH
C705 0.1 25V
C706 0.01 50V
C708 10 16V
IC702 DS90LV017ATMX
FB704 0uH
C709 0.1 16V
C710 0.01 25V
Q701 MSB709-RT1
Q702 DTC144EUA-T106
R722 100 1/10W
D709 SML-310LTT86
R721 1k 1/10W
R724 10k 1/10W
C715 0.1 16V
R701 22 1/10W
R702 22 1/10W
R705 1k 1/10W
R704 22 1/10W
MS_BUS
MS_DATA
MS_INS
MS_SCLK
CN701 10P
GND
MS_BS
VCC
MS_SDIO
NC
MS_INS
NC
MS_SCLK
VCC
GND
MEMORY STICK CONNECTOR
CN703 XX
D701 MA133-TX
D702 MA133-TX
D703 MA133-TX
D704 MA133-TX
Q703 MSB709-RT1
R725 100k 1/10W
R726 10k 1/10W
C718 XX
D711 UDZSTE-173.9B
C719 0.01 25V B
C716 0.1 16V
C717 22 6.3V
IC703 SN74CBTLV1G125DCKR
FB702 0uH
C712 0.1 25V
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODE

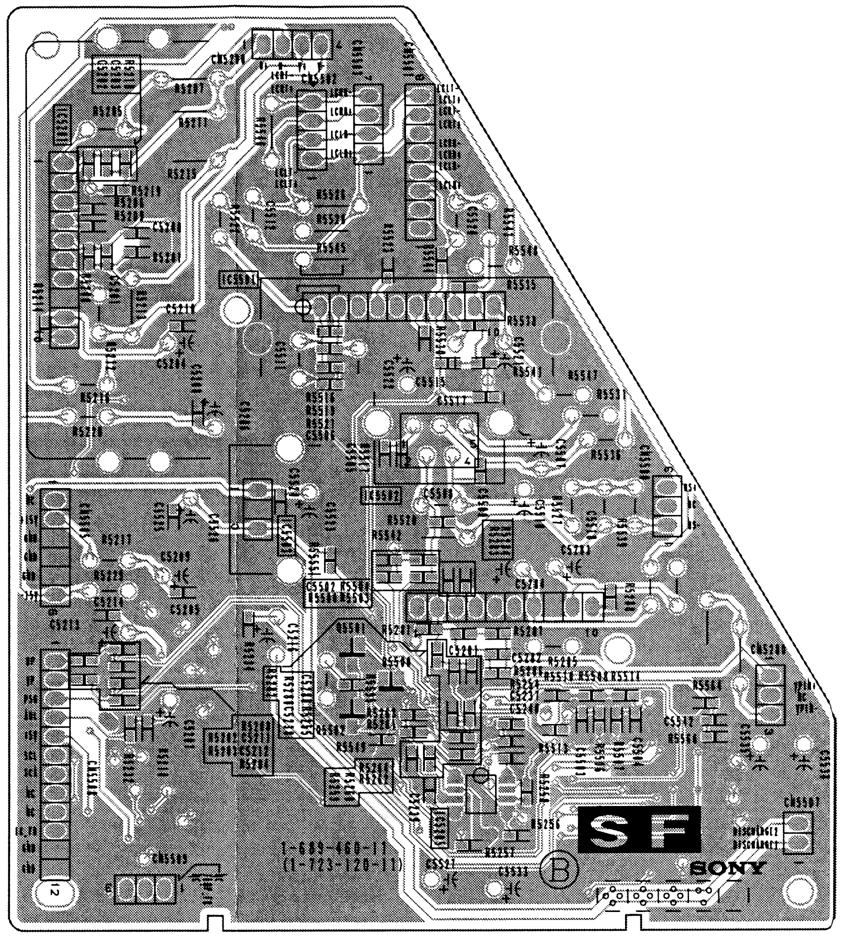
~ F Printed Wiring Board Conductor Side ~


EY6310
CN6302
EY6311
EY6301
EY6300
CN6300
VD6300
R6300
EY6309
JL2
AC IN
AC IN
EY6308
S6300
EY6306
EY6307
CN6301
C6300
EY6303
FH6300
EY6304
EY6305
EY6302
1-689-457-11
(1-723-118-11)
PRIMARY
JL1
F
B
T5AH 250V
32"
T6.3AH 250V
36"
SECONDARY
R502
Q500
Q501
R503
R505
JL16
JL8
CN500
JL15
JL18
JL17
JL9
R500
R506
R504
JL7
JL14
JL11
JL10
JL6
D501
IC500
C500
R501
SONY

~ SF Printed Wiring Board Conductor Side A ~


A
SONY
SF
1-689-460-11
(1-723-120-11)

~ SF Printed Wiring Board Conductor Side B ~


SF
1-689-460-11
(1-723-120-11)
B
SONY

~ F Board Difference Table ~

Ref	KV-32HQ100	KV-36HQ100
A501	-	HOLDER LED
C6300	-	0.0047UF
CN500	1-564-507-11 4P	1-564-519-11 4P
VD6300	VARISTOR	VARISTOR (ERZV14D621)

~ SF Board Location Table A side ~

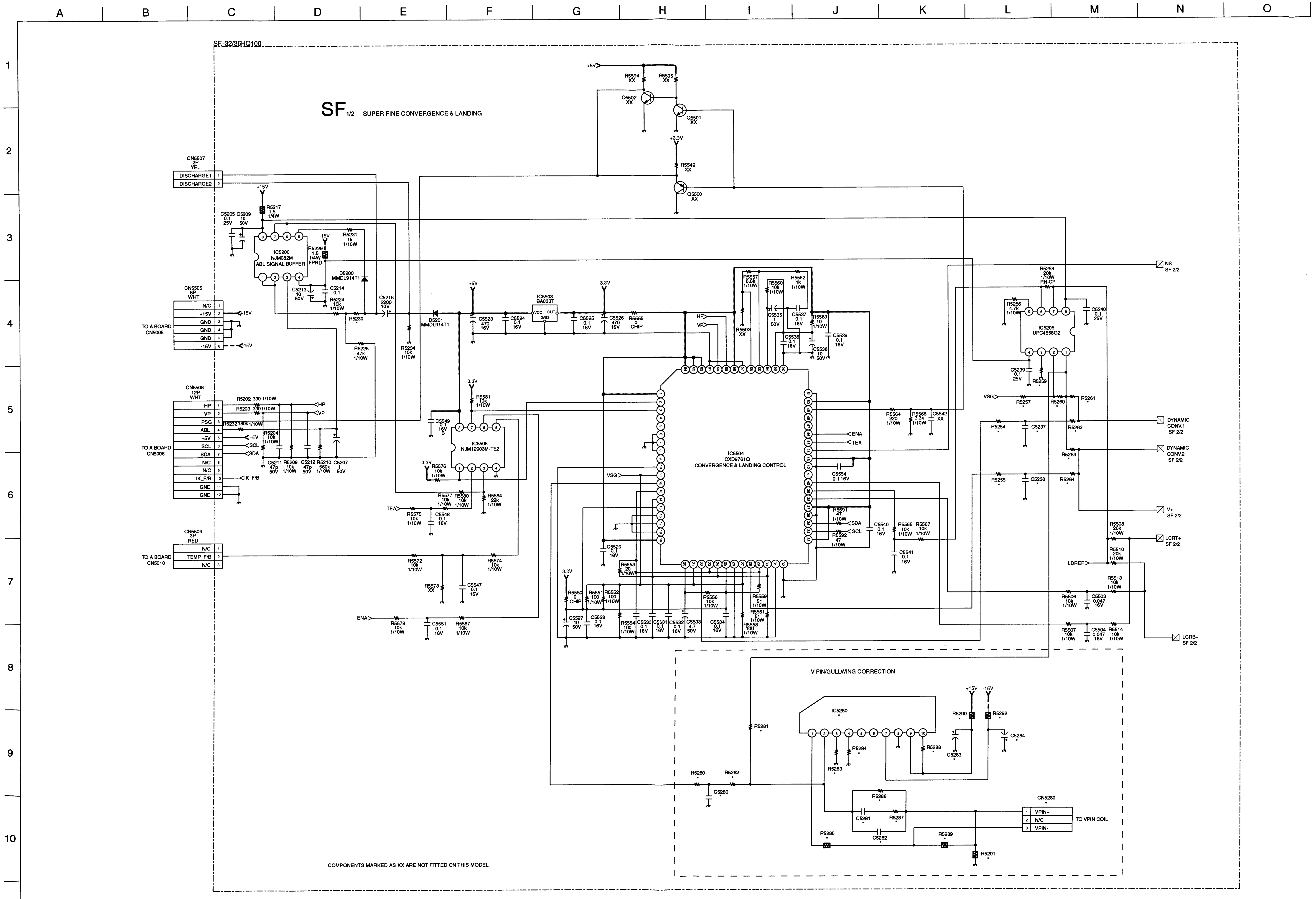
DIODE	IC		
		IC5280 H - 4	IC5503 I - 3
D5200 I - 5	IC5200 I - 5	IC5501 H - 3	IC5504 G - 6
D5201 H - 4	IC5201 J - 2	IC5502 H - 4	IC5505 I - 5

~ SF Board Location Table B side ~

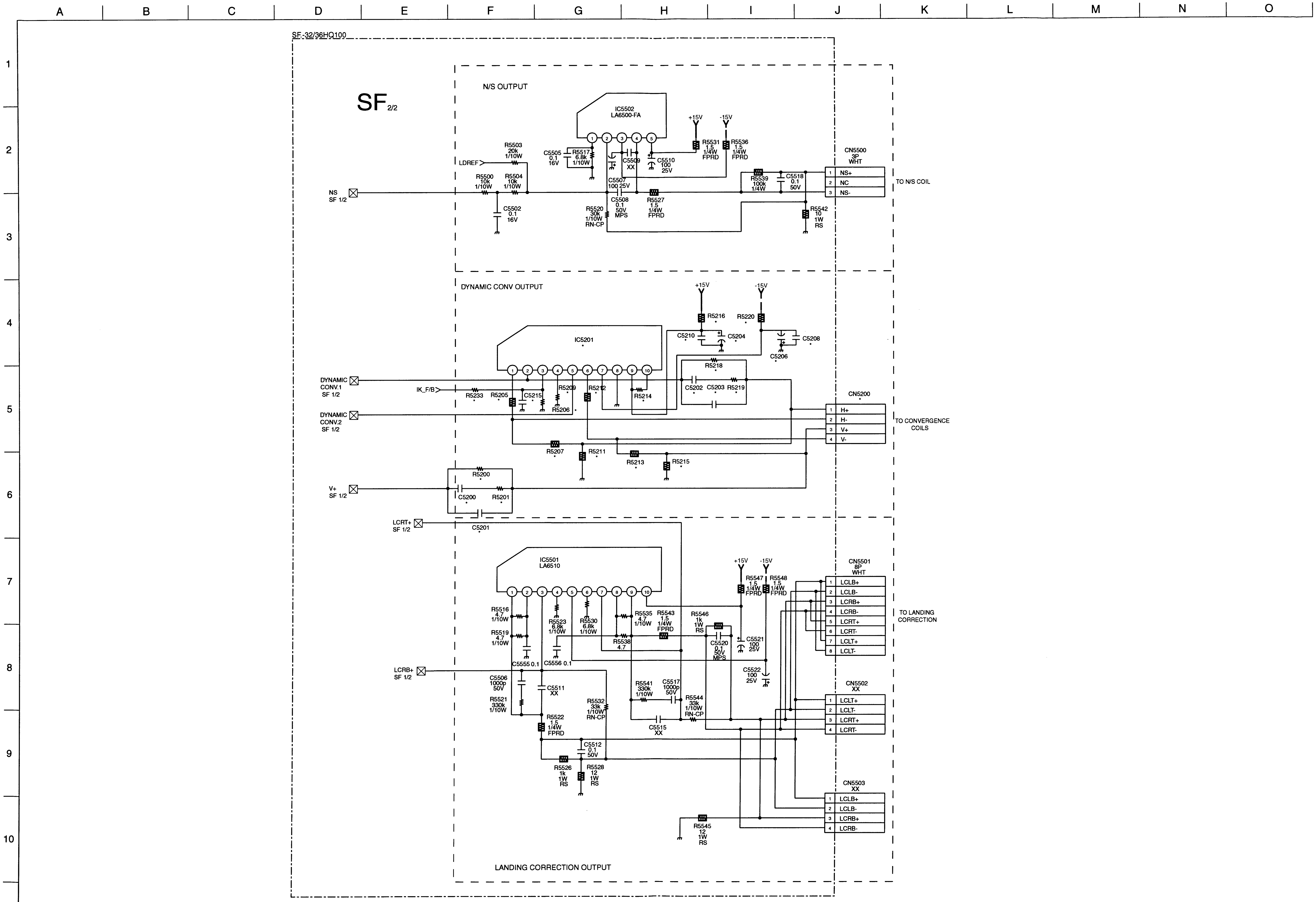
IC	
	IC5503 L - 4
IC5501 L - 3	IC5505 M - 5
IC5502 M - 4	

~ SF Board Difference Table ~

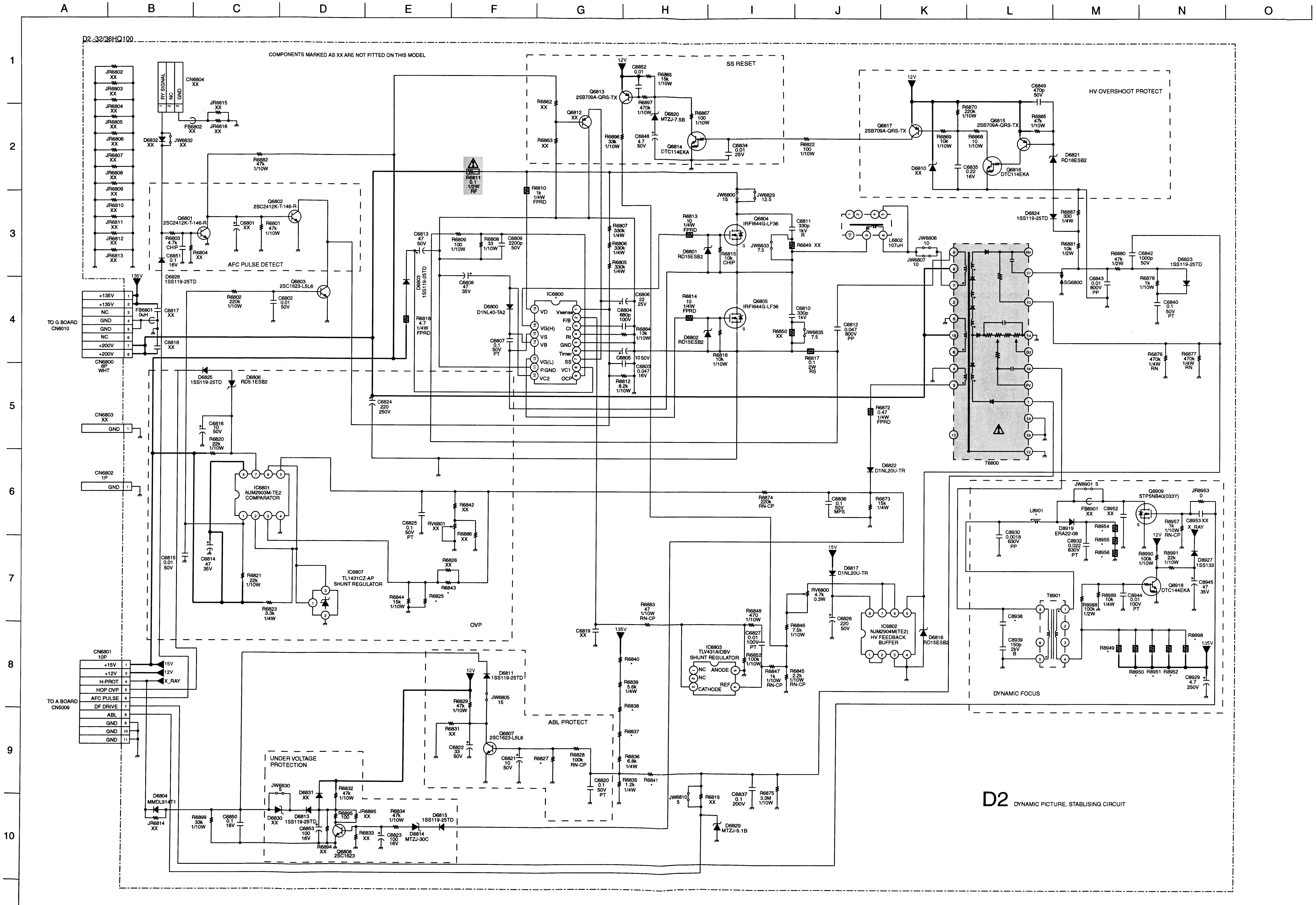
Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100
C5200	-	100PF	C5238	-	0.0033UF	R5200	-	5.6K	R5215	-	3.3	R5259	-	4.7K	R5284	-	1.2K
C5201	-	47PF	C5280	-	0.0033UF	R5201	-	2.2K	R5216	-	1	R5260	-	10K	R5285	-	1.5
C5202	-	100PF	C5281	-	100PF	R5205	-	1.5	R5218	-	5.6K	R5261	-	3.3K	R5286	-	5.6K
C5203	-	47UF	C5282	-	47PF	R5206	-	1.2K	R5219	-	2.2K	R5262	-	300	R5287	-	2.2K
C5204	-	100UF	C5283	-	100UF	R5207	-	270	R5220	-	1	R5263	-	3.3K	R5288	-	68K
C5206	-	100UF	C5284	-	100UF	R5209	-	1.2K	R5230	680K	1M	R5264	-	300	R5289	-	270
C5208	-	0.1UF	CN5200	-	PLUG, CONNECT-OR 4P	R5211	-	3.3	R5233	-	51K	R5280	-	3K	R5290	-	1
C5210	-	0.1UF	CN5280	-	PLUG, CONNECT-OR 3P	R5212	-	1.5	R5254	-	3K	R5281	-	3.3K	R5291	-	3.3
C5215	-	0.01UF	IC5201	-	STK391-120	R5213	-	270	R5255	-	3K	R5282	-	300	R5292	-	1
C5237	-	0.0033UF	IC5280	-	STK391-120	R5214	-	68K	R5257	-	10K	R5283	-	1.2K			


SF-32/36HQ100
SF 1/2 SUPER FINE CONVERGENCE & LANDING
CN5507 2P YEL
DISCHARGE1
DISCHARGE2
IC5200 NJM082M ABL SIGNAL BUFFER
D5200 MMDL914T1
D5201 MMDL914T1
IC5503 BA033T
CN5505 6P WHT
N/C
+15V
GND
-15V
TO A BOARD CN5005
CN5508 12P WHT
HP
VP
PSG
ABL
+5V
SCL
SDA
IK_F/B
TO A BOARD CN5006
CN5509 3P RED
TEMP_F/B
TO A BOARD CN5010
IC5505 NJM12903M-TE2
TEA
ENA
VSG
IC5504 CXD9761Q CONVERGENCE & LANDING CONTROL
Q5502 XX
Q5501 XX
Q5500 XX
IC5205 UPC4558G2
NS SF 2/2
DYNAMIC CONV.1 SF 2/2
DYNAMIC CONV.2 SF 2/2
V+ SF 2/2
LCRT+ SF 2/2
LCRB+ SF 2/2
LDREF
V-PIN/GULLWING CORRECTION
IC5280
CN5280
VPIN+
N/C
VPIN-
TO VPIN COIL
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ SF Board Schematic Diagram [Super Fine Convergence & Landing] Page 1/2 ~

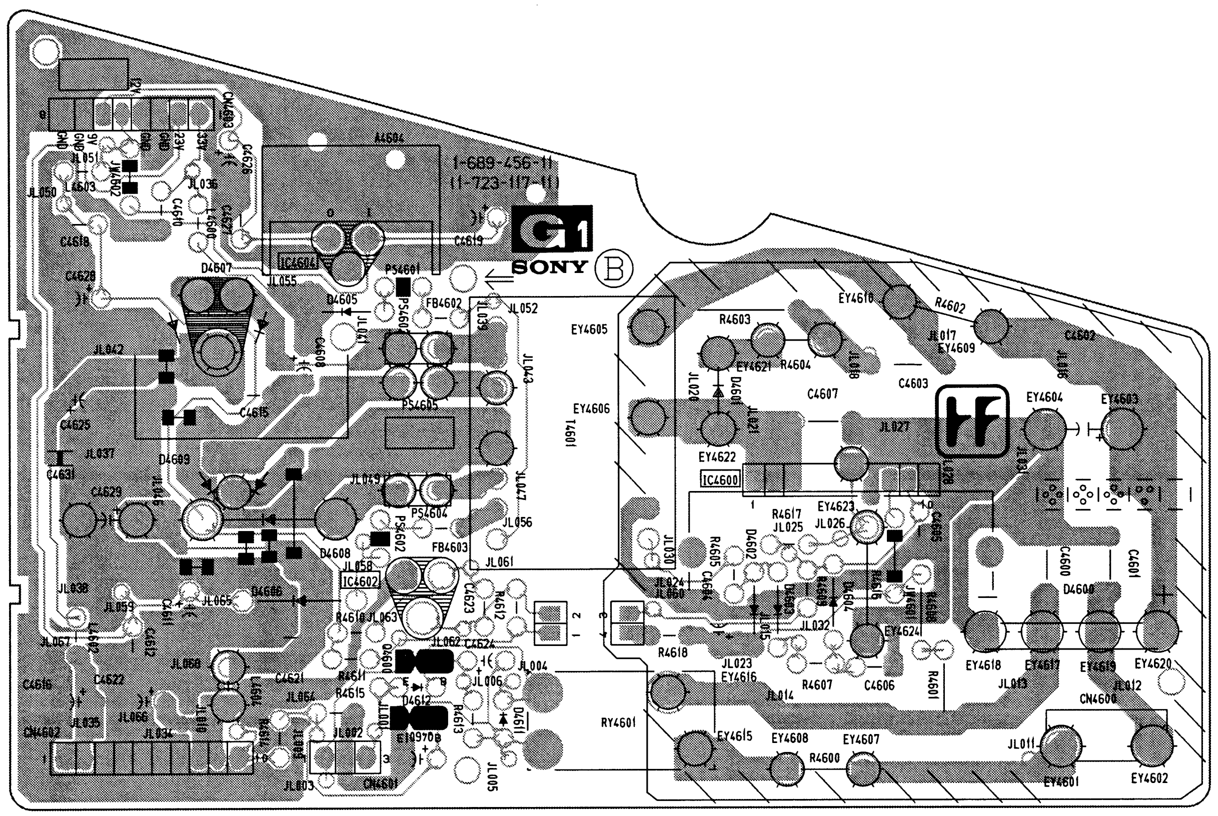

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
SF-32/36HQ100
SF 2/2
N/S OUTPUT
IC5502
LA6500-FA
+15V
-15V
R5531 1.5 1/4W FPRD
R5536 1.5 1/4W FPRD
R5503 20k 1/10W
C5505 0.1 16V
R5517 6.8k 1/10W
C5509 XX
C5510 100 25V
LDREF
R5500 10k 1/10W
R5504 10k 1/10W
C5507 100 25V
C5508 0.1 50V MPS
R5527 1.5 1/4W FPRD
R5539 100k 1/4W
C5518 0.1 50V
CN5500 3P WHT
NS+
NC
NS-
TO N/S COIL
NS SF 1/2
C5502 0.1 16V
R5520 30k 1/10W RN-CP
R5542 10 1W RS
DYNAMIC CONV OUTPUT
IC5201
R5216
R5220
C5210
C5204
C5208
C5206
R5218
DYNAMIC CONV.1 SF 1/2
IK_F/B
R5233
R5205
C5215
R5209
R5212
R5214
R5206
C5202
C5203
R5219
CN5200
H+
H-
V+
V-
TO CONVERGENCE COILS
DYNAMIC CONV.2 SF 1/2
R5207
R5211
R5213
R5215
R5200
V+ SF 1/2
C5200
R5201
LCRT+ SF 1/2
C5201
IC5501
LA6510
+15V
-15V
R5547 1.5 1/4W FPRD
R5548 1.5 1/4W FPRD
CN5501 8P WHT
LCLB+
LCLB-
LCRB+
LCRB-
LCRT+
LCRT-
LCLT+
LCLT-
TO LANDING CORRECTION
R5516 4.7 1/10W
R5519 4.7 1/10W
R5523 6.8k 1/10W
R5530 6.8k 1/10W
R5535 4.7 1/10W
R5543 1.5 1/4W FPRD
R5546 1k 1W RS
R5538 4.7
C5520 0.1 50V MPS
C5521 100 25V
C5555 0.1
C5556 0.1
C5522 100 25V
LCRB+ SF 1/2
C5506 1000p 50V
C5511 XX
R5521 330k 1/10W
R5532 33k 1/10W RN-CP
R5541 330k 1/10W
C5517 1000p 50V
R5544 33k 1/10W RN-CP
C5515 XX
CN5502 XX
LCLT+
LCLT-
LCRT+
LCRT-
R5522 1.5 1/4W FPRD
C5512 0.1 50V
R5526 1k 1W RS
R5528 12 1W RS
CN5503 XX
LCLB+
LCLB-
LCRB+
LCRB-
R5545 12 1W RS
LANDING CORRECTION OUTPUT

~ SF Board Schematic Diagram [Super Fine Convergence & Landing] Page 2/2 ~

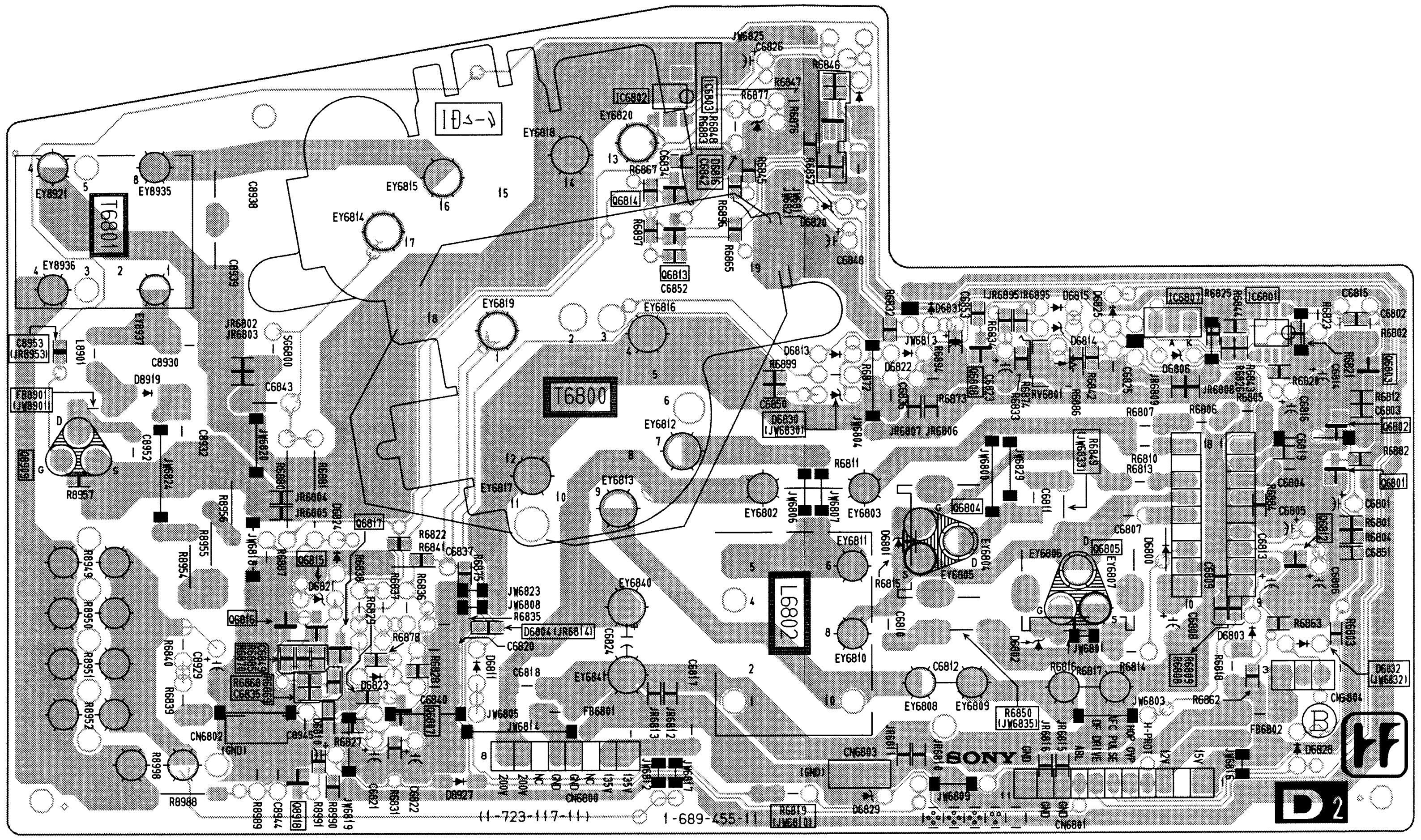

D2 -32/36HQ100
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
SS RESET
HV OVERSHOOT PROTECT
AFC PULSE DETECT
OVP
ABL PROTECT
UNDER VOLTAGE PROTECTION
DYNAMIC FOCUS
TO G BOARD CN6010
CN6800 8P WHT
+135V
+135V
NC
GND
GND
NC
+200V
+200V
CN6803 XX
CN6802 1P
GND
TO A BOARD CN5009
CN6801 10P
+15V
+12V
H-PROT
HOP OVP
AFC PULSE
DF DRIVE
ABL
GND
GND
GND
IC6800
VD
Vsense
F/B
VG(H)
Ct
VS
Rt
VB
GND
Timer
VG(L)
SS
P.GND
VC1
VC2
OCP
IC6801 NJM2903M-TE2 COMPARATOR
IC6807 TL1431CZ-AP SHUNT REGULATOR
IC6803 TLV431AIDBV SHUNT REGULATOR
ANODE
REF
CATHODE
IC6802 NJM2904M(TE2) HV FEEDBACK BUFFER
Q6801 2SC2412K-T-146-R
Q6802 2SC2412K-T-146-R
Q6803 2SC1623-L5L6
Q6804 IRFI644G-LF36
Q6805 IRFI644G-LF36
Q6807 2SC1623-L5L6
Q6808 2SC1623
Q6812 XX
Q6813 2SB709A-QRS-TX
Q6814 DTC114EKA
Q6815 2SB709A-QRS-TX
Q6816 DTC114EKA
Q6817 2SB709A-QRS-TX
Q8909 STP5NB40(033Y)
Q8918 DTC144EKA
T6800
T8901
L6802 107uH
L8901
R6811 0.1 1/2W RF
D2 DYNAMIC PICTURE, STABLISING CIRCUIT

~ D2 Board Schematic Diagram [Dynamic Picture Stabilising Circuit] ~

~ G1 Printed Wiring Board Conductor Side~


1-689-456-11
(1-723-117-11)
G1
SONY
B
IC4604
IC4602
IC4600
PS4601
PS4602
PS4604
PS4605
FB4602
FB4603
CN4600
CN4601
CN4602

~ D2 Printed Wiring Board Conductor Side~


T6801
T6800
L6802
IC6800
IC6801
IC6802
IC6803
IC6807
CN6800
CN6801
CN6802
CN6803
(GND)
SONY
B
D2
(1-723-117-11)
1-689-455-11

~ D2 Board IC Voltages ~

Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC6800	1	1.6	IC6802	1-4	0
	2	1.8		5	6.8
	3	2.3		6	6.7
	4	2.5		7	6.7
	5-6	0		8	14.2
	7	4.6	IC6803	1-2	0
	8	13.9		3	1.7
	9	0		4	1.2
	10	10.2		5	0
	11	0	IC6807	1	2.5
	12	4.4		2	0
	18	196.0		3	2.5
IC6801	1	0			
	2	2.5			
	3	2.1			
	4	0			
	5	2.2			
	6	2.5			
	7	0			
	8	14.7			

~ D2 Board Difference Table ~

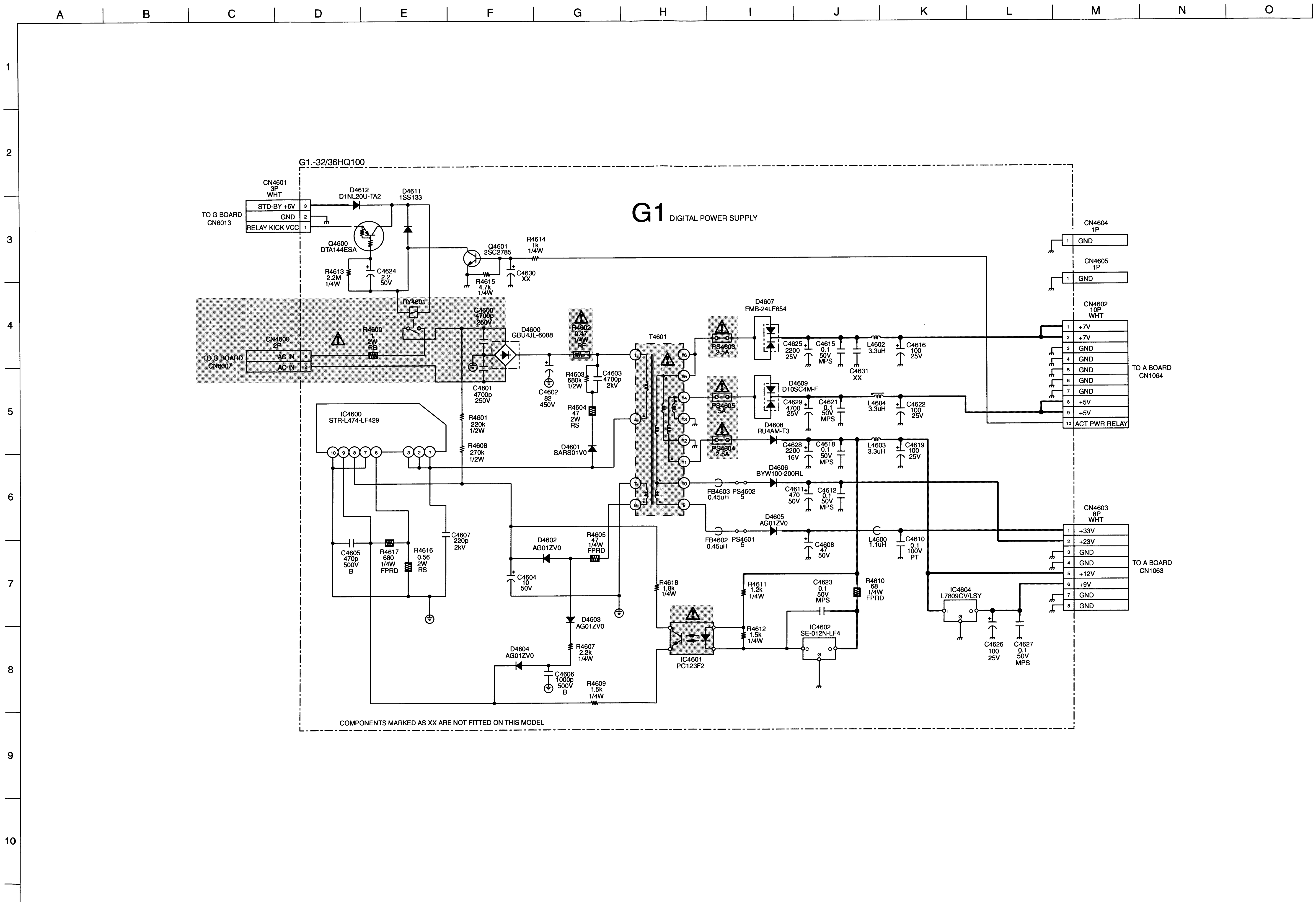
Ref	KV-32HQ100	KV-36HQ100
C8938	-	150PF
IC6800	MCZ3001DA	MCZ3001D
L8901	4.7MH	3.3MH
R6825	150K	-
R6827	33K	56K
R6837	5.6K	6.8K
R6838	5.6K	6.8K
R6840	5.6K	6.8K
R6841	1K	560
R6843	820	1K
R8949	8.2K	4.7K
R8950	8.2K	6.8K
R8951	8.2K	4.7K
R8952	8.2K	4.7K
R8954	100K	33K
R8955	100K	33K
R8956	100K	100K
R8998	8.2K	4.7K

~ D2 Board Location Table ~

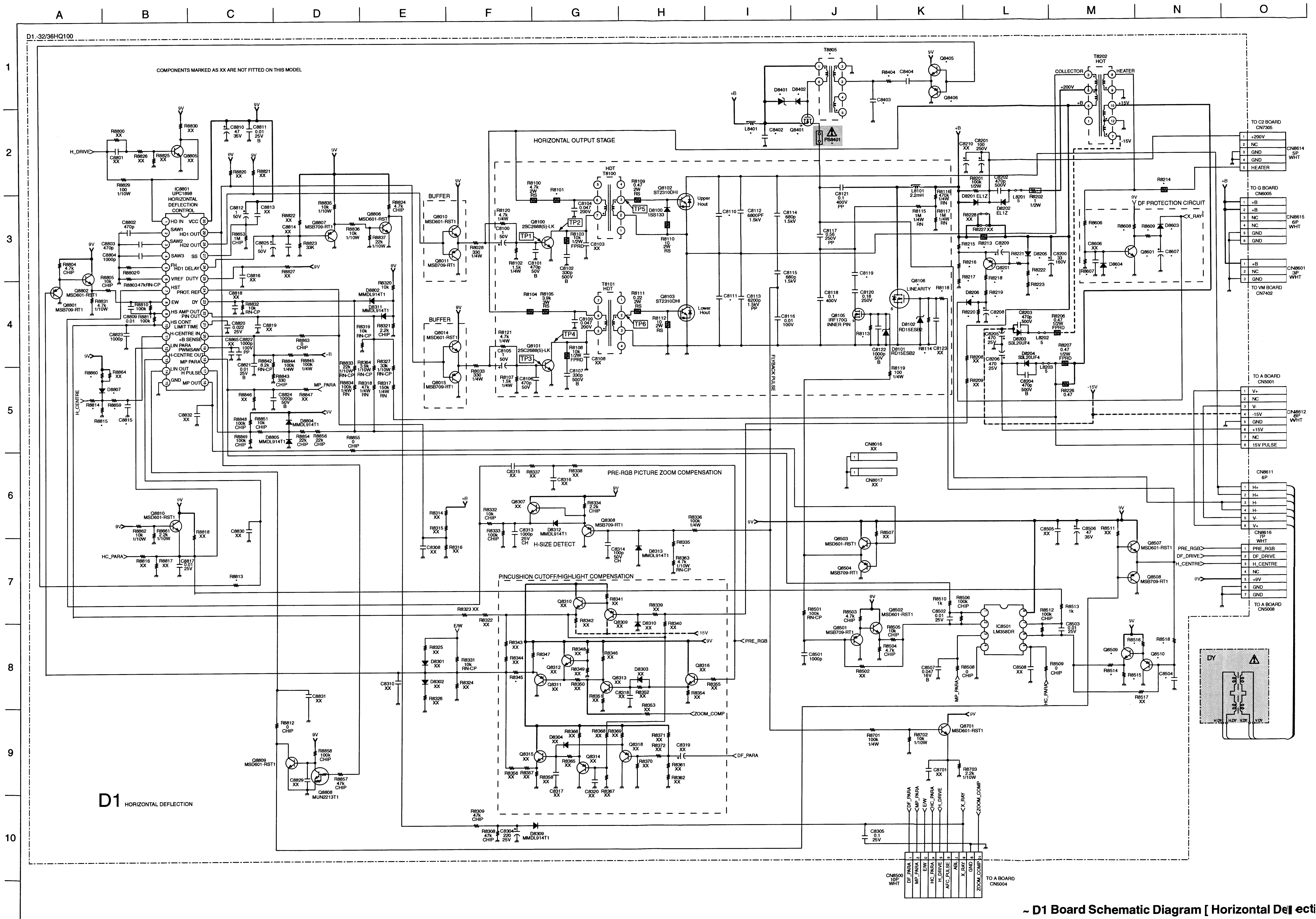
DIODE	
D6800	N - 4
D6801	M - 4
D6802	N - 5
D6803	O - 5
D6804	J - 5
D6806	N - 3
D6811	J - 5
D6813	L - 3
D6814	N - 3
D6815	N - 3
D6816	L - 2
D6817	L - 2
D6820	L - 2
D6821	I - 5
D6822	M - 3
D6823	J - 5
D6824	I - 4
D6825	N - 3
D6828	O - 5
D8919	H - 3
D8927	J - 6
IC	
IC6800	N - 4
IC6801	O - 3
IC6802	K - 1
IC6803	L - 2
IC6807	O - 3
TRANSISTOR	
Q6801	O - 4
Q6802	O - 3
Q6803	O - 3
Q6804	M - 4
Q6805	N - 4
Q6807	J - 5
Q6808	M - 3
Q6813	K - 2
Q6814	K - 2
Q6815	I - 4
Q6816	I - 4
Q6817	I - 5
Q8909	H - 3
Q8918	I - 6

~ D2 Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)
Q6801	0	0.6	0
Q6802	0	0	1.6
Q6803	0	0	1.6
Q6807	0	0.6	0
Q6808	0	0.6	0
Q6813	11.9	11.4	1.2
Q6814	0	0	11.9
Q6815	11.9	11.9	0
Q6816	0	0	11.7
Q6817	11.9	11.7	0
Q8918	0	6.4	0

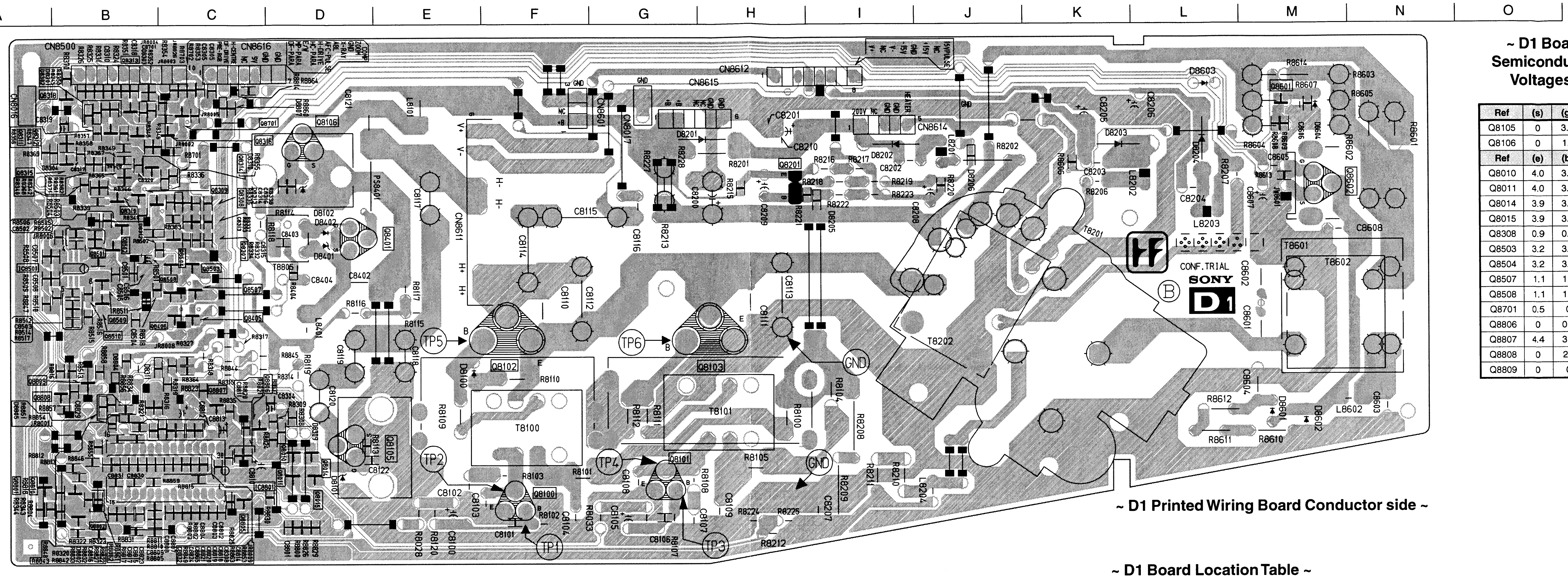

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
G1.-32/36HQ100
G1 DIGITAL POWER SUPPLY
CN4601 3P WHT
TO G BOARD CN6013
STD-BY +6V
GND
RELAY KICK VCC
3
2
1
D4612 D1NL20U-TA2
D4611 1SS133
Q4600 DTA144ESA
R4613 2.2M 1/4W
C4624 2.2 50V
Q4601 2SC2785
R4614 1k 1/4W
R4615 4.7k 1/4W
C4630 XX
RY4601
C4600 4700p 250V
D4600 GBU4JL-6088
R4602 0.47 1/4W RF
CN4600 2P
TO G BOARD CN6007
AC IN
AC IN
R4600 1 2W RB
C4601 4700p 250V
C4602 82 450V
R4603 680k 1/2W
C4603 4700p 2kV
R4604 47 2W RS
D4601 SARS01V0
T4601
IC4600 STR-L474-LF429
10
9
8
7
6
3
2
1
R4601 220k 1/2W
R4608 270k 1/2W
16
15
14
13
12
11
10
9
7
8
4
PS4603 2.5A
PS4605 5A
PS4604 2.5A
D4607 FMB-24LF654
C4625 2200 25V
C4615 0.1 50V MPS
C4631 XX
L4602 3.3uH
C4616 100 25V
D4609 D10SC4M-F
C4629 4700 25V
C4621 0.1 50V MPS
L4604 3.3uH
C4622 100 25V
D4608 RU4AM-T3
C4628 2200 16V
C4618 0.1 50V MPS
L4603 3.3uH
C4619 100 25V
D4606 BYW100-200RL
FB4603 0.45uH
PS4602 5
C4611 470 50V
C4612 0.1 50V MPS
D4605 AG01ZV0
FB4602 0.45uH
PS4601 5
C4608 47 50V
L4600 1.1uH
C4610 0.1 100V PT
CN4604 1P
CN4605 1P
GND
GND
CN4602 10P WHT
+7V
+7V
GND
GND
GND
GND
GND
+5V
+5V
ACT PWR RELAY
TO A BOARD CN1064
CN4603 8P WHT
+33V
+23V
GND
GND
+12V
+9V
GND
GND
TO A BOARD CN1063
C4605 470p 500V B
R4617 680 1/4W FPRD
R4616 0.56 2W RS
C4607 220p 2kV
D4602 AG01ZV0
R4605 47 1/4W FPRD
C4604 10 50V
R4618 1.8k 1/4W
D4603 AG01ZV0
R4607 2.2k 1/4W
D4604 AG01ZV0
C4606 1000p 500V B
R4609 1.5k 1/4W
IC4601 PC123F2
R4611 1.2k 1/4W
R4612 1.5k 1/4W
C4623 0.1 50V MPS
IC4602 SE-012N-LF4
R4610 68 1/4W FPRD
IC4604 L7809CV/LSY
C4626 100 25V
C4627 0.1 50V MPS
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ G1 Board Schematic Diagram [Digital PowerSupply] ~



D1-32/36HQ100
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
HORIZONTAL OUTPUT STAGE
IC8801 UPC1898 HORIZONTAL DEFLECTION CONTROL
HD IN
VCC
SAW1
HD1 OUT
SAW2
HD2 OUT
SAW3
SS
RH
HD1 DELAY
VREF
DUTY
HST
PROT. REF
EW
DY
HS AMP OUT
PIN OUT
HS CONT
LIMIT TIME
H-CENTRE IN
+B SENSE
LIN PARA
PWMSAW
H-CENTRE OUT
MP PARA
LIN OUT
H PULSE
GND
MP OUT
H_DRIVE
H_CENTRE
HC_PARA
MP_PARA
BUFFER
Q8010 MSD601-RST1
Q8011 MSB709-RT1
Q8014 MSD601-RST1
Q8015 MSB709-RT1
Q8100 2SC2688(5)-LK
Q8101 2SC2688(5)-LK
HDT T8100
HDT T8101
Q8102 ST2310DHI Upper Hout
Q8103 ST2310DHI Lower Hout
TP1
TP2
TP3
TP4
TP5
TP6
FLYBACK PULSE
Q8105 IRF170G INNER PIN
Q8106 LINEARITY
D8102 RD15ESB2
D8101 RD15ESB2
T8805
Q8405
Q8406
PS8401
T8202 HOT
COLLECTOR
HEATER
+200V
+15V
-15V
DF PROTECTION CIRCUIT
X_RAY
TO C2 BOARD CN7305
CN8614 5P WHT
1 +200V
2 NC
3 GND
4 GND
5 HEATER
TO G BOARD CN6005
CN8615 6P WHT
1 +B
2 +B
3 NC
4 NC
5 GND
6 GND
CN8601 3P WHT
1 +B
2 NC
3 GND
TO VM BOARD CN7402
TO A BOARD CN5001
CN8612 8P WHT
1 V+
2 NC
3 V-
4 -15V
5 GND
6 +15V
7 NC
8 15V PULSE
CN8016 XX
CN8017 XX
CN8611 6P
1 H+
2 H+
3 H-
4 H-
5 V-
6 V+
CN8616 7P WHT
1 PRE_RGB
2 DF_DRIVE
3 H_CENTRE
4 NC
5 +9V
6 GND
7 GND
TO A BOARD CN5008
PRE_RGB
DF_DRIVE
H_CENTRE
PRE-RGB PICTURE ZOOM COMPENSATION
H-SIZE DETECT
PINCUSHION CUTOFF/HIGHLIGHT COMPENSATION
ZOOM_COMP
DF_PARA
E/W
IC8501 LM358DR
Q8701 MSD601-RST1
DY
H DY
V DY
CN8500 10P WHT
1 DF_PARA
2 MP_PARA
3 E/W
4 HC_PARA
5 H_DRIVE
6 AFC_PULSE
7 ABL
8 X_RAY
9 GND
10 ZOOM_COMP
TO A BOARD CN5004
D1 HORIZONTAL DEFLECTION
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11

~ D1 Board Schematic Diagram [Horizontal Deflection] ~


A
B
C
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E
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G
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K
L
M
N
O
1
2
3
4
5
CN8500
CN8616
CN8612
CN8615
CN8614
CN8601
CN8611
CN8606
T8100
T8101
T8202
T8601
T8602
TP1
TP2
TP3
TP4
TP5
TP6
GND
Q8100
Q8101
Q8102
Q8103
Q8105
Q8106
Q8201
Q8602
D8100
D8101
D8102
D8201
D8202
D8203
D8204
D8601
D8602
D8603
L8101
L8203
L8401
L8602
PS8401
CONF.TRIAL
SONY
D1

~ D1 Printed Wiring Board Conductor side ~

~ D1 Board Semiconductor Voltages ~

Ref	(s)	(g)	(d)
Q8105	0	3.2	21.1
Q8106	0	1.1	135.2
Ref	**(e)**	**(b)**	**(c)**
Q8010	4.0	3.9	8.9
Q8011	4.0	3.9	0
Q8014	3.9	3.8	8.9
Q8015	3.9	3.8	0
Q8308	0.9	0.2	0
Q8503	3.2	3.2	8.9
Q8504	3.2	3.2	0
Q8507	1.1	1.0	8.9
Q8508	1.1	1.0	0
Q8701	0.5	0	8.9
Q8806	0	0.7	0
Q8807	4.4	3.8	0
Q8808	0	2.1	0
Q8809	0	0	1.0

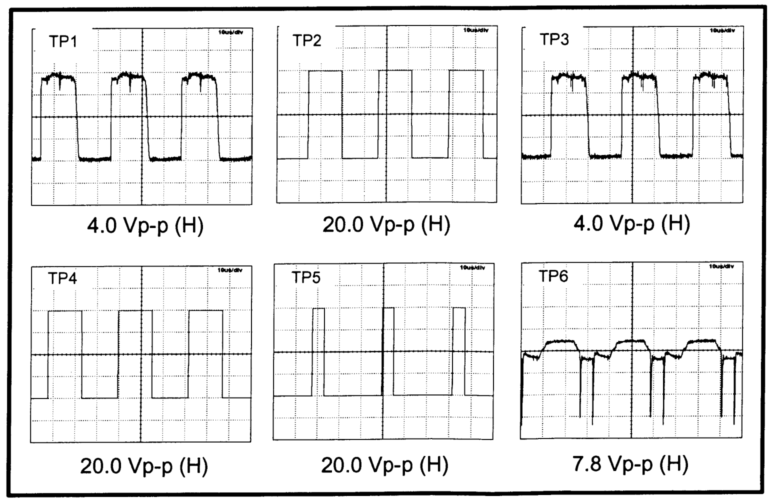
~ D1 Board Location Table ~

DIODE				TRANSISTOR					
D8100	E - 4	D8311	B - 4	Q8010	D - 4	Q8105	D - 5	Q8701	C - 1
D8101	D - 5	D8312	B - 2	Q8011	D - 5	Q8106	D - 2	Q8801	A - 5
D8102	D - 2	D8313	C - 3	Q8014	D - 4	Q8308	C - 2	Q8802	B - 5
D8201	H - 2	D8802	B - 5	Q8015	D - 5	Q8501	B - 3	Q8806	C - 4
D8202	I - 2	D8804	B - 4	Q8100	F - 5	Q8502	B - 2	Q8807	C - 4
D8203	K - 2	D8805	B - 4	Q8101	G - 5	Q8503	C - 3	Q8808	B - 4
D8204	L - 2	**IC**		Q8102	F - 4	Q8504	C - 3	Q8809	B - 4
D8309	D - 4	IC8501	A - 3	Q8103	H - 4	Q8507	C - 3	Q8810	B - 5
		IC8801	C - 5			Q8508	C - 3		

~ D1 Board IC Voltages ~

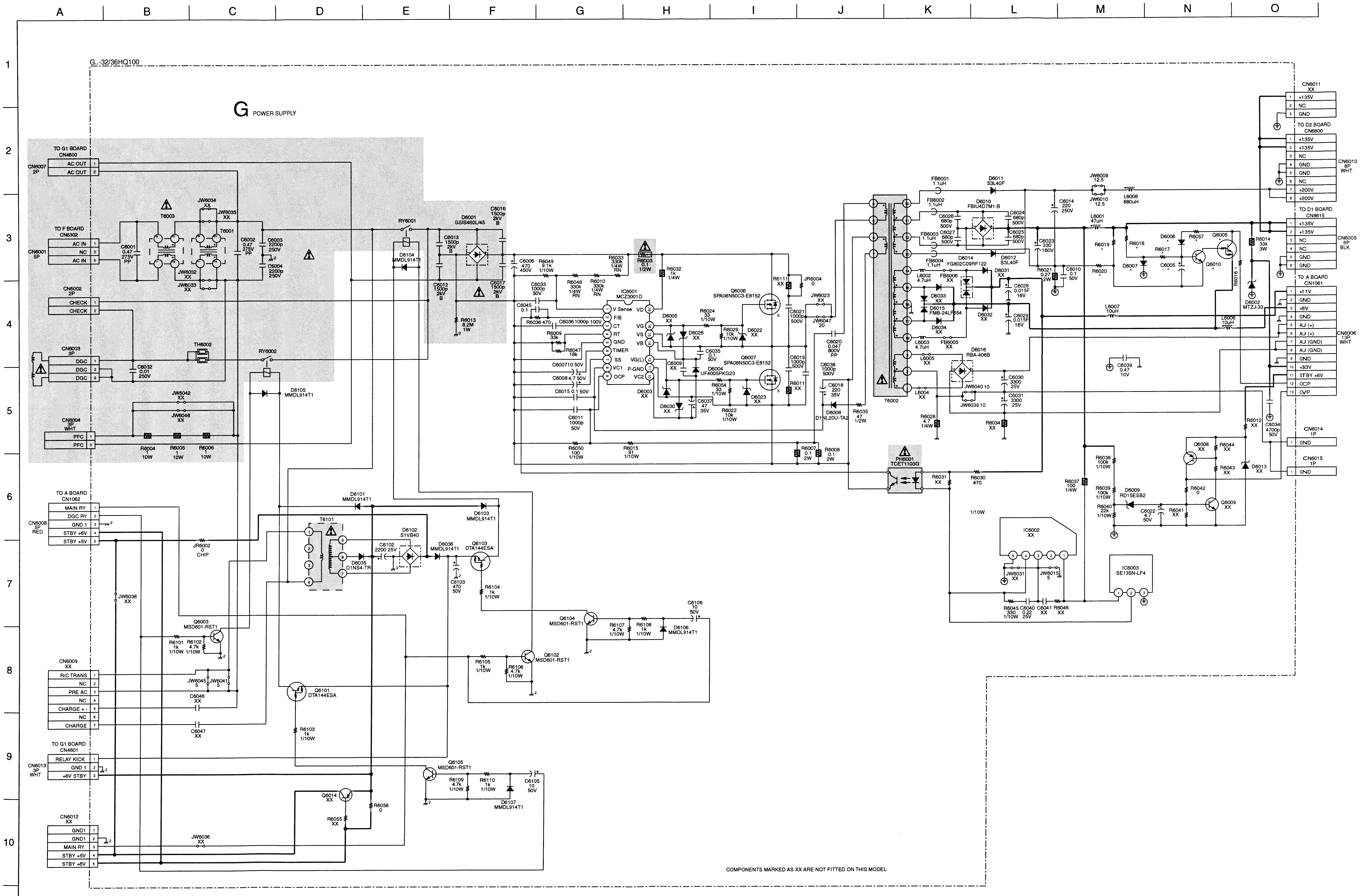
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V	Ref No	Pin No	Voltage (V	Ref No	Pin No	Voltage (V	Ref No	Pin No	Voltage (V
IC8801	1	4.4	IC8801	7	3.7	IC8801	13	3.0	IC8801	19	2.6	IC8801	25	4.2
	2	2.7		8	3.7		14	1.0		20	5.5		26	3.8
	3	3.4		9	3.2		15	0		21	2.6		27	2.7
	4	1.4		10	3.2		16	3.2		22	1.0		28	3.9
	5	0		11	1.3		17	1.7		23	1.0		29	3.8
	6	3.0		12	2.1		18	3.2		24	5.5		30	8.8

~ D1 Board Waveforms ~



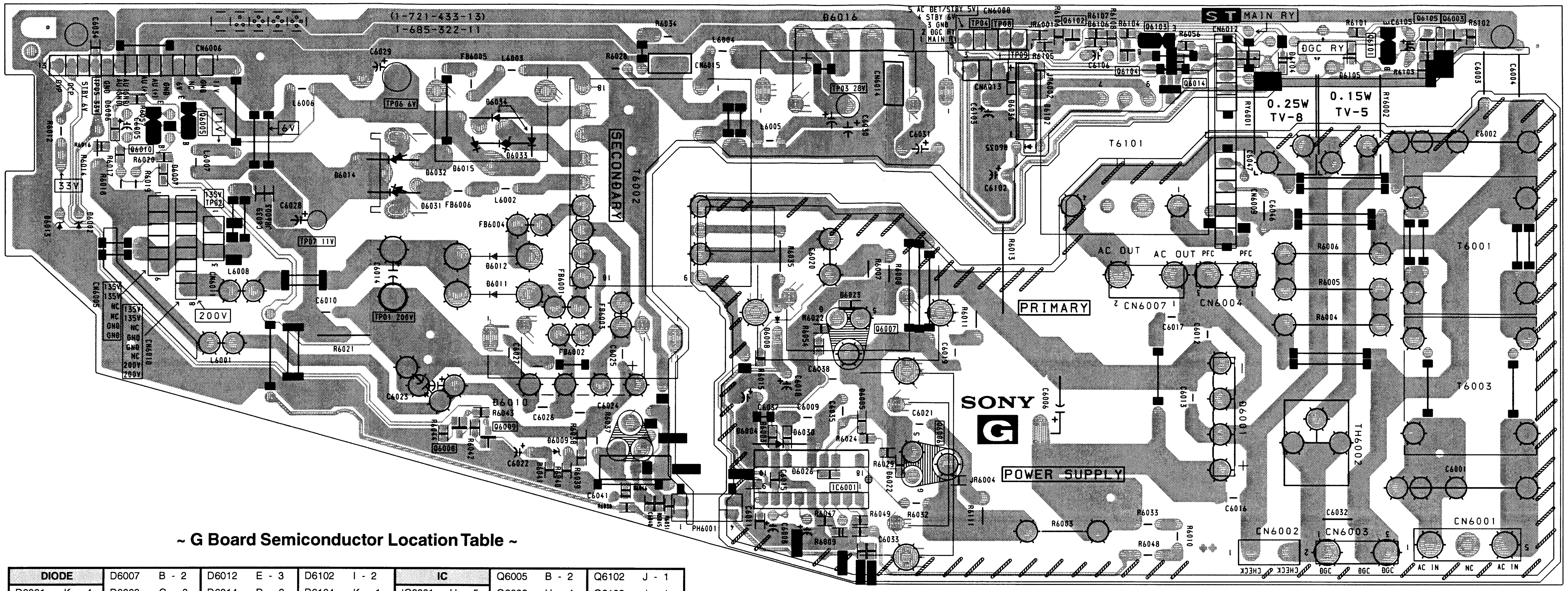
~ D1 Board DifferenceTable ~

Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100
C8110	220PF 10.00% 2KV	470PF 5.00% 2KV	D8205	-	MMDL914T1	Q8401	-	IRF1740G	R8213	-	1.5 5% 2W	R8345	-	22K 5% 1/10W	R8813	-	SHORT 0
C8111	680PF 3.00% 1.5	470PF 3.00% 1.5	D8206	-	MMDL914T1	Q8405	-	MSD601-RS-T1	R8215	-	1K 0.5% 1/10W	R8347	-	33K 5% 1/10W	R8814	-	22K 0.5% 1/10W
C8119	0.18UF 3.00%1.5	0.22UF 3.00% 1.5	D8401	-	RD15ESB2	Q8406	-	MSB709-RT1	R8216	-	39K 1% 1/4W	R8404	-	47 5% 1/10W	R8815	-	10K 0.5% 1/10W
C8208	-	100UF 20.00% 25V	D8402	-	1SS133T-77	Q8509	-	MSD601-RS-T1	R8217	-	39K 1% 1/4W	R8514	-	10K 5% 1/10W	R8859	-	10K 0.5% 1/10W
C8209	-	100UF 20.00% 25V	D8603	-	1SS133T-77	Q8510	-	2SA103AK--T146R	R8218	-	100K 1% 1/4W	R8515	-	4.7K 5% 1/10W	R8860	-	27K 0.5% 1/10W
C8402	-	0.047UF 5.00% 400	D8604	-	1SS133T-77	Q8601	-	MSD601-RS-T1	R8219	-	100K 1% 1/4W	R8516	-	4.7K 5% 1/10W	T8805	-	TRANSFORMER, DRIVE
C8403	-	470PF 10.00% 50V	D8807	-	1SS355TE-1-7	R8101	3.9K 5% 2W	3.3K 5% 2W	R8220	-	22K 5% 1/10W	R8517	1K 5% 1/10W	-			
C8404	-	1UF 5.00% 50V	L8401	-	4.7MH	R8104	4.7K 5% 2W	3.3K 5% 2W	R8221	-	10K 5% 1/10W	R8606	-	22K 5% 1/10W			
C8504	0.0022UF 10.00% 50V	0.001UF 10.00% 50V	PS8401	-	1.6A	R8113	-	470K 5% 1/10W	R8222	-	100K 1% 1/4W	R8607	-	22K 5% 1/10W			
C8607	-	10UF 20.00% 50V	Q8106	STP5NB40FP	IRF1740G	R8114	-	100K 5% 1/10W	R8223	-	100K 1% 1/4W	R8608	-	100K 5% 1/10W			
C8815	-	0.01UF 10.00% 25V	Q8201	-	2SA1208S-T-P	R8118	100 5% 1/4W	47 5% 1/4W	R8335	4.7K 0.5% 1/10W	8.2K 0.5% 1/10W	R8609	-	22K 5% 1/10W			


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
G..-32/36HQ100
G POWER SUPPLY
TO G1 BOARD CN4600
CN6007 2P
AC OUT
AC OUT
TO F BOARD CN6302
CN6001 5P
AC IN
NC
AC IN
CN6002 2P
CHECK
CHECK
CN6003 3P
DGC
DGC
DGC
CN6004 3P WHT
PFC
PFC
T6003
T6001
JW6034 XX
JW6035 XX
JW6032 XX
JW6033 XX
C6001 0.47 275V PP
C6002 0.47 275V PP
C6003 2200p 250V
C6004 2200p 250V
TH6002
C6032 0.01 250V
JW6042 XX
JW6046 XX
R6004 1 10W
R6005 1 10W
R6006 1 10W
RY6001
RY6002
D6104 MMDL914T1
D6105 MMDL914T1
D6001 GSIB460L/45
C6016 1500p 2kV B
C6013 1500p 2kV B
C6012 1500p 2kV B
C6017 1500p 2kV B
R6013 8.2M 1W
C6006 470 450V
R6049 9.1k 1/10W
R6048 330k 1/4W RN
R6010 330k 1/4W RN
R6033 330k 1/4W RN
R6003 0.1 1/2W
R6032 1k 1/4W
C6033 1000p 50V
C6045 0.1
R6036 470
C6036 1000p 100V
R6009 33k
R6047 18k
C600710 50V
C6008 4.7 50V
C6015 0.1 50V
C6011 1000p 50V
IC6001 MCZ3001D
V Sense
F/B
CT
RT
GND
TIMER
SS
VC1
OCP
VD
VG
VS
VB
VG(L)
P-GND
VC2
D6005 XX
D6026 XX
R6024 33 1/10W
R6029 10k 1/10W
D6022 XX
C6035 0.1 50V
C6009 XX
D6004 UF4005PKG23
R6054 33 1/10W
D6023 XX
D6003 XX
D6030 XX
C6037 47 35V
R6022 10k 1/10W
Q6006 SPA08N50C3-E8152
Q6007 SPA08N50C3-E8152
R6111 XX
JR6004 0
JW6023 XX
JW6047 20
C6021 1000p 500V
C6019 1000p 500V
R6011 XX
C6020 0.047 800V PP
C6038 1000p 500V
C6018 220 35V
D6008 D1NL20U-TA2
R6035 47 1/2W
R6050 100 1/10W
R6015 91 1/10W
R6007 0.1 2W
R6008 0.1 2W
T6002
FB6001 1.1uH
D6011 S3L40F
FB6002 1.1uH
D6010 FBIU4D7M1-B
C6026 680p 500V
C6027 680p 500V
C6024 680p 500V
C6025 680p 500V
FB6003 1.1uH
FB6004 1.1uH
D6014 YG802C09RF122
D6012 S3L40F
L6002 4.7uH
FB6006 XX
D6031 XX
D6033 XX
D6015 FMB-24LF
D6034 XX
D6032 XX
C6028 0.015F 16V
C6029 0.015F 16V
L6003 4.7uH
FB6005 XX
D6016 RBA-406B
L6005 XX
JW6040 10
JW6039 10
C6030 3300 25V
C6031 3300 25V
L6004 XX
R6028 4.7 1/4W
R6034 XX
JW6009 12.5
JW6010 12.5
L6008 680uH
C6014 220 250V
L6001 47uH
C6023 330 160V
R6021 0.27 2W
C6010 0.1 50V
R6019
R6020
R6018
R6017
D6006
R6057
Q6005
Q6010
D6007
C6005
R6014 33k 3W
R6016
D6002 MTZJ-33
L6007 10uH
L6006 10uH
C6039 0.47 10V
R6012 XX
C6034 4700p 50V
CN6011 XX
+135V
NC
GND
TO D2 BOARD CN6800
+135V
+135V
NC
GND
GND
NC
+200V
+200V
CN6010 8P WHT
TO D1 BOARD CN8615
+135V
+135V
NC
NC
GND
GND
CN6005 6P BLK
TO A BOARD CN1061
+11V
GND
+5V
GND
AJ (+)
AJ (+)
AJ (GND)
AJ (GND)
GND
+33V
STBY +6V
OCP
OVP
CN6006 13P WHT
CN6014 1P
GND
CN6015 1P
GND
Q6008 XX
R6044 XX
R6043 XX
D6013 XX
R6042 0
Q6009 XX
R6041 XX
C6022 4.7 50V
D6009 RD15ESB2
R6038 100k 1/10W
R6039 100k 1/10W
R6040 22k 1/10W
R6037 100 1/4W
PH6001 TCET1103G
R6031 XX
R6030 470
1/10W
IC6002 XX
JW6031 XX
JW6015 5
R6045 330 1/10W
C6040 0.22 25V
C6041 XX
R6046 XX
IC6003 SE135N-LF4
TO A BOARD CN1062
CN6008 5P RED
MAIN RY
DGC RY
GND 1
STBY +6V
STBY +5V
JR6002 0 CHIP
D6101 MMDL914T1
D6103 MMDL914T1
T6101
D6102 S1VB40
C6102 2200 25V
D6035 D1NS4-TR
D6036 MMDL914T1
Q6103 DTA144ESA
C6103 470 50V
R6104 1k 1/10W
JW6038 XX
Q6003 MSD601-RST1
R6101 1k 1/10W
R6102 4.7k 1/10W
Q6104 MSD601-RST1
R6107 4.7k 1/10W
R6108 1k 1/10W
D6106 MMDL914T1
C6106 10 50V
Q6102 MSD601-RST1
R6105 1k 1/10W
R6106 4.7k 1/10W
CN6009 XX
R/C TRANS
NC
PRE AC
NC
CHARGE + -
NC
CHARGE
JW6045 5
JW6041 5
C6046 XX
C6047 XX
Q6101 DTA144ESA
R6103 1k 1/10W
TO G1 BOARD CN4601
CN6013 3P WHT
RELAY KICK
GND 1
+6V STBY
Q6105 MSD601-RST1
R6109 4.7k 1/10W
R6110 1k 1/10W
C6105 10 50V
D6107 MMDL914T1
Q6014 XX
R6056 0
R6055 XX
CN6012 XX
GND1
GND1
MAIN RY
STBY +5V
STBY +6V
JW6036 XX

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ G Board Schematic Diagram [Power Supply] ~


1-721-433-13
1-685-322-11
SECONDARY
PRIMARY
SONY
G
POWER SUPPLY
MAIN RY
DGC RY
0.25W
TV-8
0.15W
TV-5
T6101
T6001
T6003
T6002
TH6002
AC OUT
AC OUT
PFC
PFC
CN6007
CN6004
CN6001
CN6002
CN6003
CN6006
IC6001
TP01 200V
TP07 11V
TP06 6V
TP03 28V
TP02
33V
200V
135V
AC IN
NC
AC IN
CHECK
DGC
PH6001

~ G Printed Wiring Board Conductor side ~

~ G Board Semiconductor Location Table ~

DIODE		D6007	B - 2	D6012	E - 3	D6102	I - 2	**IC**		Q6005	B - 2	Q6102	J - 1
D6001	K - 4	D6008	G - 3	D6014	D - 2	D6104	K - 1	IC6001	H - 5	Q6006	H - 4	Q6103	J - 1
D6002	A - 2	D6009	E - 4	D6015	E - 2	D6105	L - 1	IC6003	F - 4	Q6007	H - 3	Q6104	J - 1
D6004	G - 4	D6010	E - 4	D6016	H - 1	D6106	J - 1	**TRANSISTOR**		Q6010	B - 2	Q6105	M - 1
D6006	B - 2	D6011	E - 3	D6035	I - 2	D6107	M - 1	Q6003	M - 1	Q6101	L - 1		

~ G Board IC Voltages ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC6003	1	134.0
	2	11.3
	3	0

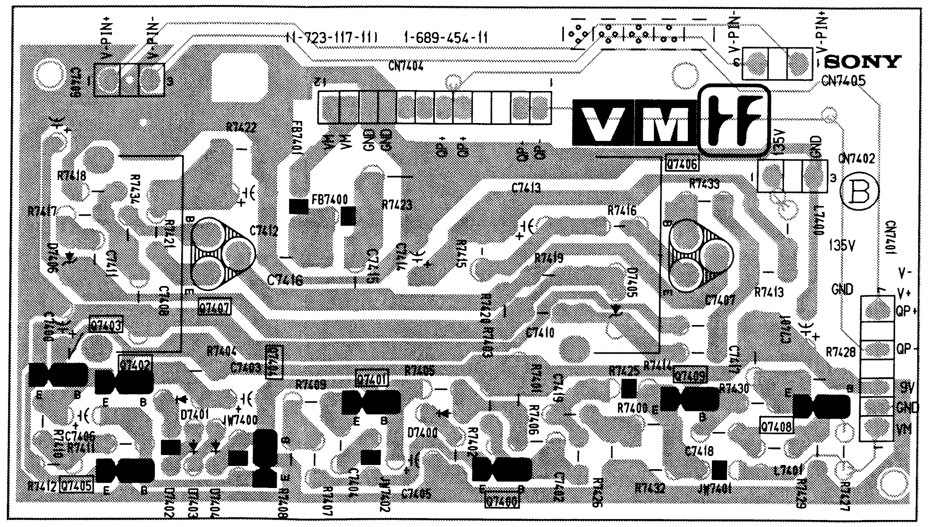
~ G Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)
Q6003	0	0.3	10.9
Q6005	7.1	6.9	0.6
Q6010	0	0.5	6.9
Q6101	23.8	23.6	11.0
Q6102	0	0.7	0
Q6103	23.7	23.4	10.4
Q6104	0	0	23.4
Q6105	0	0	23.6

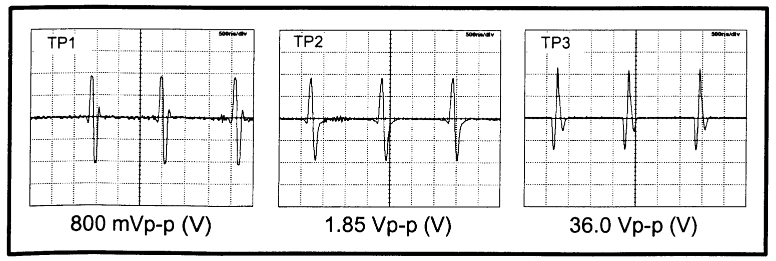
~ G Board Difference Table ~

Ref	KV-32HQ100	KV-36HQ100
C6005	22UF	-
D6006	MMDL914T1	-
D6007	MMDL914T1	-
Q6005	DTA144ESA	-
Q6010	2SC2785-HFE	-
R6016	1K	-
R6017	10K	-
R6018	470K	-
R6019	330K	-
R6020	820	-
R6057	4.7K	-

~ VM Printed Wiring Board Conductor side ~


1-723-117-11
1-689-454-11
SONY
VM
CN7404
CN7405
CN7401
135V
GND
V-
V+
QP+
QP-
9V
GND
VM
Q7400
Q7401
Q7402
Q7403
Q7405
Q7406
Q7407
Q7408
Q7409
B

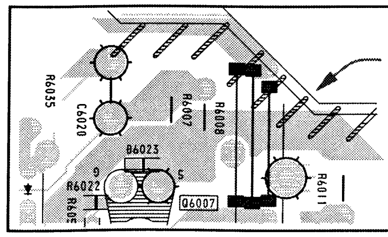
~ VM Board Waveforms ~



800 mVp-p (V) 1.85 Vp-p (V) 36.0 Vp-p (V)

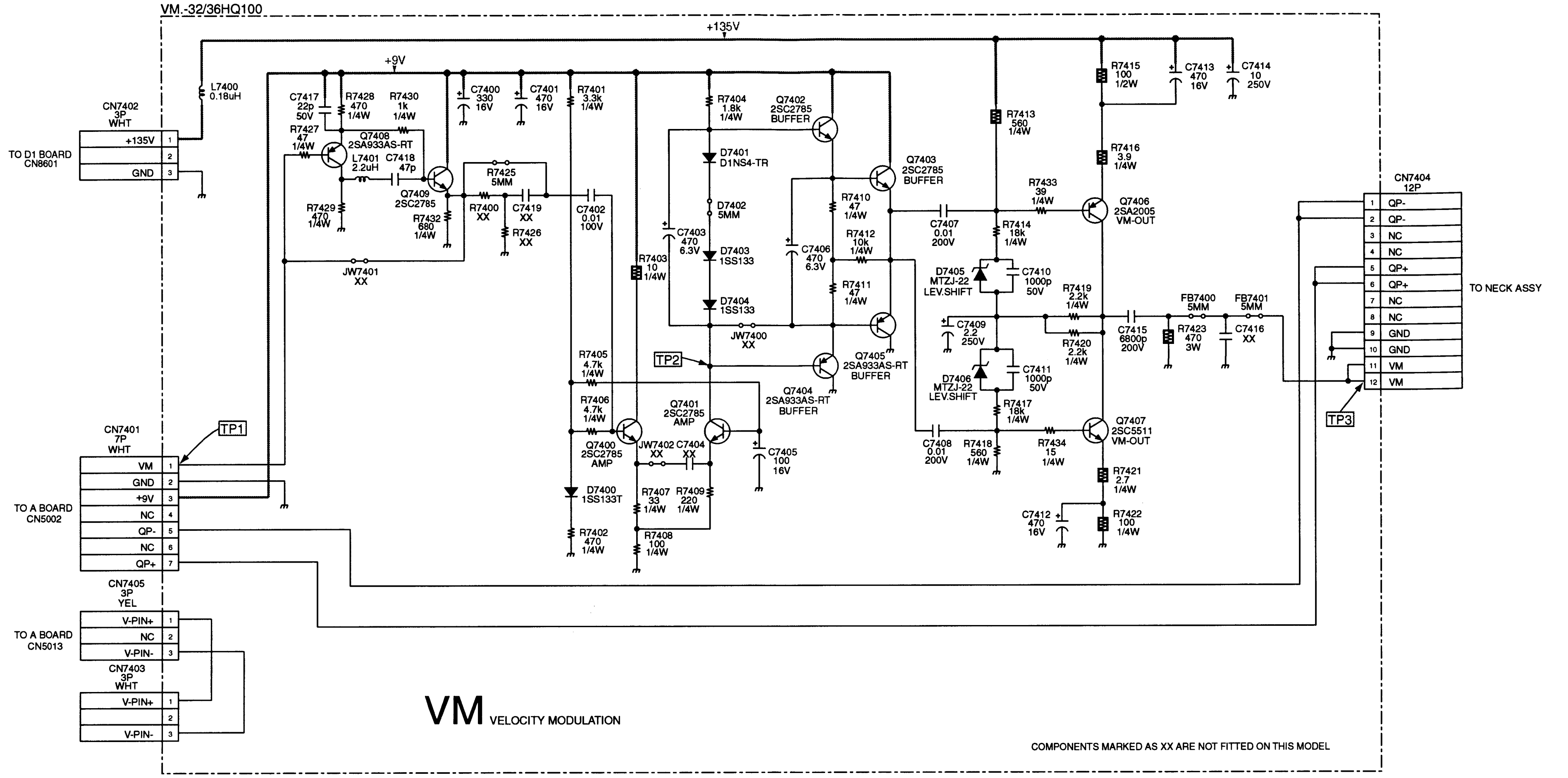
~ VM Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)
Q7400	0.9	1.5	8.8
Q7401	0.9	1.6	5.0
Q7402	5.8	6.4	8.8
Q7403	5.6	5.8	8.8
Q7404	5.6	5.0	0
Q7405	5.6	5.6	0
Q7406	133.9	133.6	67.2
Q7407	1.0	1.3	67.2
Q7408	3.9	3.1	3.9
Q7409	3.9	3.2	8.8

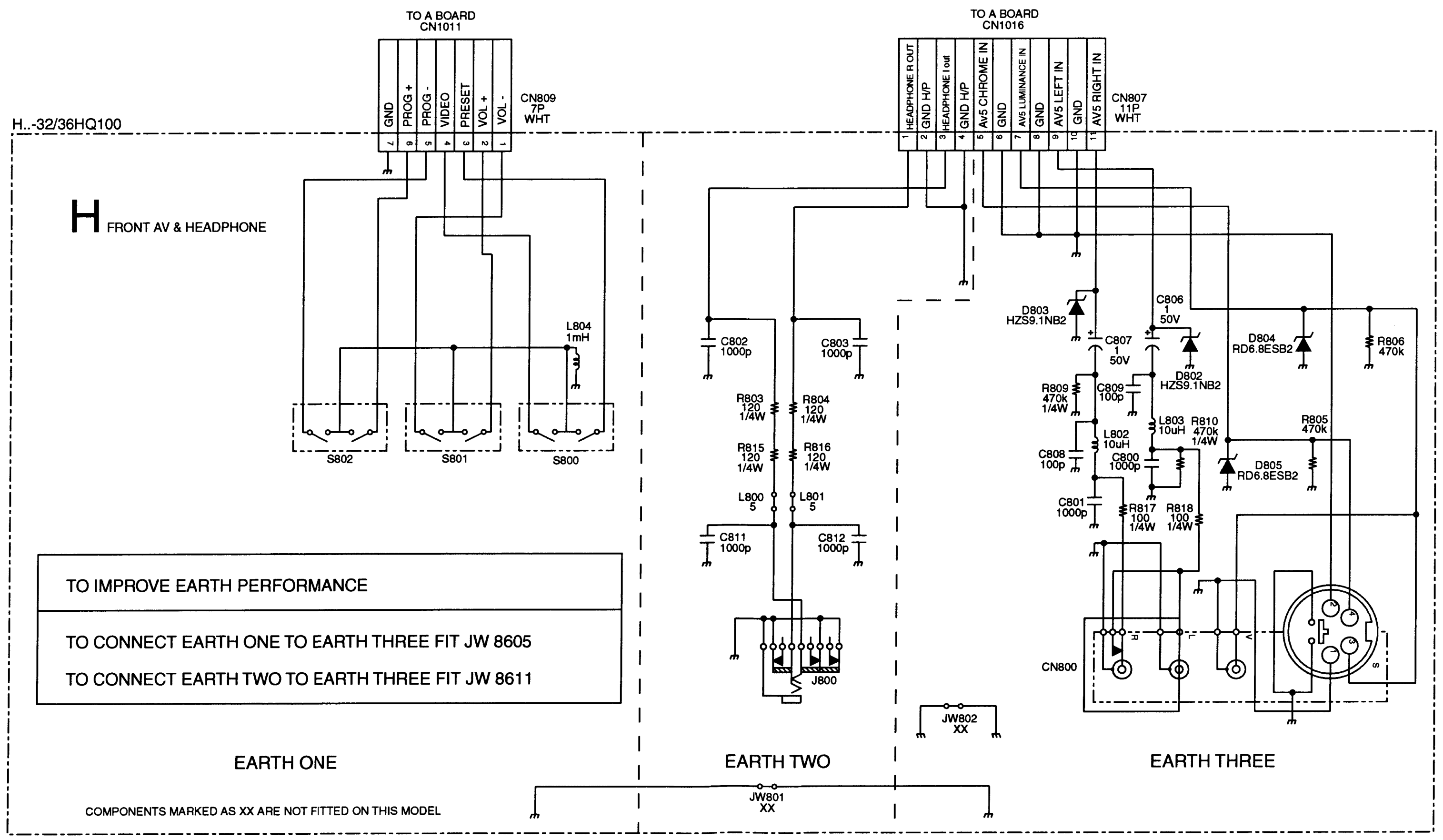

R6035
C6020
R6007
R6008
B6023
R6022
Q6007
R6011

Note :
Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.

~ VM Board Schematic Diagram [Velocity Modulation] ~


VM.-32/36HQ100
+135V
+9V
TO D1 BOARD CN8601
CN7402 3P WHT
+135V
GND
L7400 0.18uH
C7417 22p 50V
R7428 470 1/4W
R7430 1k 1/4W
R7427 47 1/4W
Q7408 2SA933AS-RT
L7401 2.2uH
C7418 47p
Q7409 2SC2785
R7429 470 1/4W
R7432 680 1/4W
C7400 330 16V
C7401 470 16V
R7401 3.3k 1/4W
R7425 5MM
R7400 XX
C7419 XX
R7426 XX
C7402 0.01 100V
JW7401 XX
R7404 1.8k 1/4W
Q7402 2SC2785 BUFFER
D7401 D1NS4-TR
Q7403 2SC2785 BUFFER
D7402 5MM
C7403 470 6.3V
D7403 1SS133
D7404 1SS133
C7406 470 6.3V
R7410 47 1/4W
R7412 10k 1/4W
R7411 47 1/4W
JW7400 XX
R7403 10 1/4W
TP2
Q7405 2SA933AS-RT BUFFER
Q7404 2SA933AS-RT BUFFER
R7405 4.7k 1/4W
R7406 4.7k 1/4W
Q7401 2SC2785 AMP
Q7400 2SC2785 AMP
JW7402 XX
C7404 XX
C7405 100 16V
D7400 1SS133T
R7407 33 1/4W
R7409 220 1/4W
R7408 100 1/4W
R7402 470 1/4W
R7413 560 1/4W
R7415 100 1/2W
C7413 470 16V
C7414 10 250V
R7416 3.9 1/4W
R7433 39 1/4W
Q7406 2SA2005 VM-OUT
C7407 0.01 200V
R7414 18k 1/4W
D7405 MTZJ-22 LEV.SHIFT
C7410 1000p 50V
R7419 2.2k 1/4W
C7409 2.2 250V
R7420 2.2k 1/4W
C7415 6800p 200V
R7423 470 3W
FB7400 5MM
FB7401 5MM
C7416 XX
D7406 MTZJ-22 LEV.SHIFT
C7411 1000p 50V
R7417 18k 1/4W
C7408 0.01 200V
R7418 560 1/4W
R7434 15 1/4W
Q7407 2SC5511 VM-OUT
R7421 2.7 1/4W
C7412 470 16V
R7422 100 1/4W
CN7404 12P
QP-
QP-
NC
NC
QP+
QP+
NC
NC
GND
GND
VM
VM
TO NECK ASSY
TP3
TP1
CN7401 7P WHT
TO A BOARD CN5002
VM
GND
+9V
NC
QP-
NC
QP+
CN7405 3P YEL
TO A BOARD CN5013
V-PIN+
NC
V-PIN-
CN7403 3P WHT
V-PIN+
V-PIN-
VM VELOCITY MODULATION
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

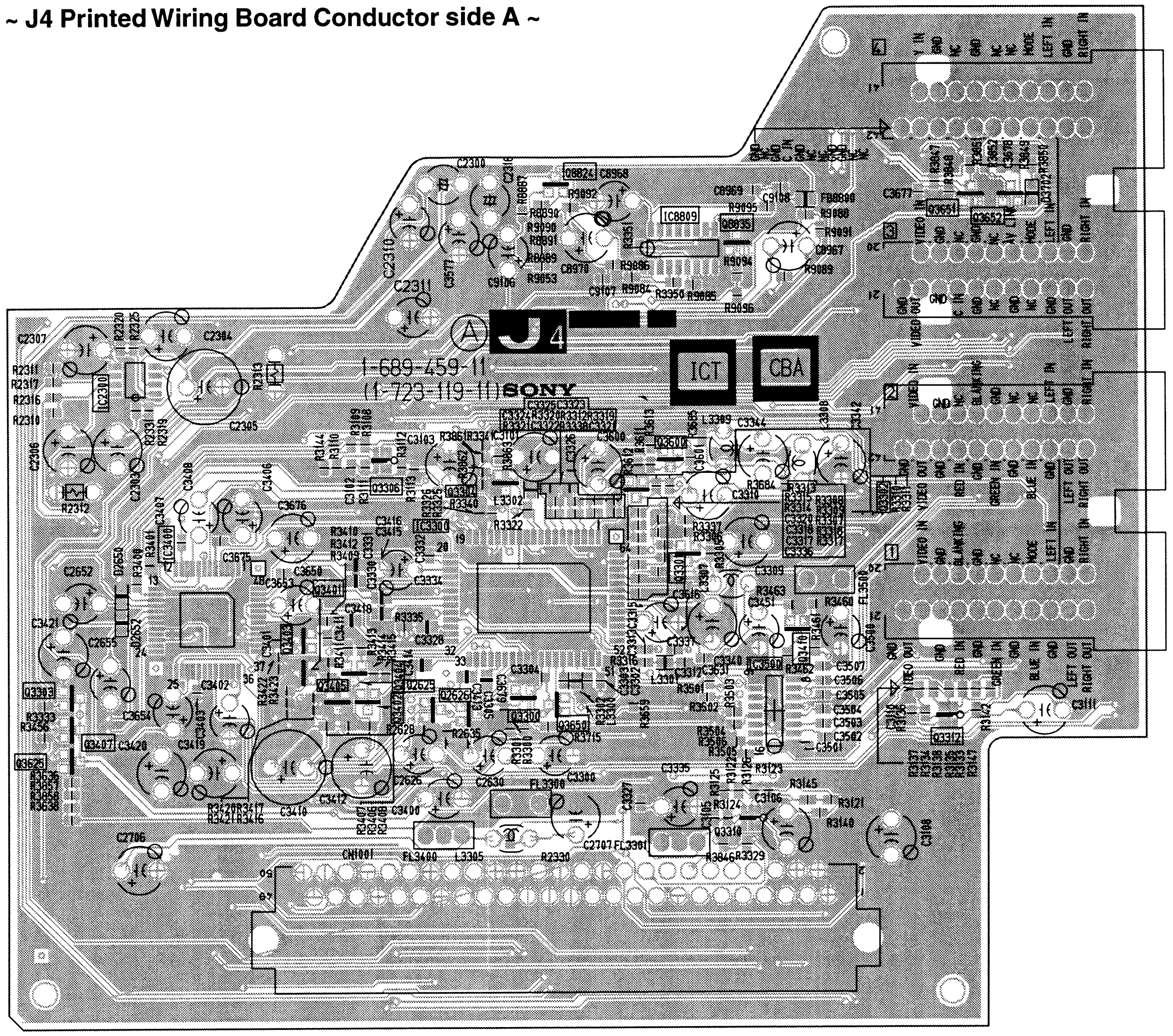
~ H Board Schematic Diagram [Front AV & Headphone] ~


TO A BOARD CN1011
GND
PROG +
PROG -
VIDEO
PRESET
VOL +
VOL -
CN809 7P WHT
H.-32/36HQ100
H FRONT AV & HEADPHONE
L804 1mH
S802
S801
S800
TO A BOARD CN1016
HEADPHONE R OUT
GND H/P
HEADPHONE l out
GND H/P
AV5 CHROME IN
GND
AV5 LUMINANCE IN
GND
AV5 LEFT IN
GND
AV5 RIGHT IN
CN807 11P WHT
C802 1000p
C803 1000p
R803 120 1/4W
R804 120 1/4W
R815 120 1/4W
R816 120 1/4W
L800 5
L801 5
C811 1000p
C812 1000p
J800
D803 HZS9.1NB2
C806 1 50V
C807 1 50V
D804 RD6.8ESB2
R806 470k
D802 HZS9.1NB2
R809 470k 1/4W
C809 100p
L803 10uH
R810 470k 1/4W
L802 10uH
C808 100p
C800 1000p
R805 470k
D805 RD6.8ESB2
C801 1000p
R817 100 1/4W
R818 100 1/4W
CN800
JW802 XX
TO IMPROVE EARTH PERFORMANCE
TO CONNECT EARTH ONE TO EARTH THREE FIT JW 8605
TO CONNECT EARTH TWO TO EARTH THREE FIT JW 8611
EARTH ONE
EARTH TWO
EARTH THREE
JW801 XX
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

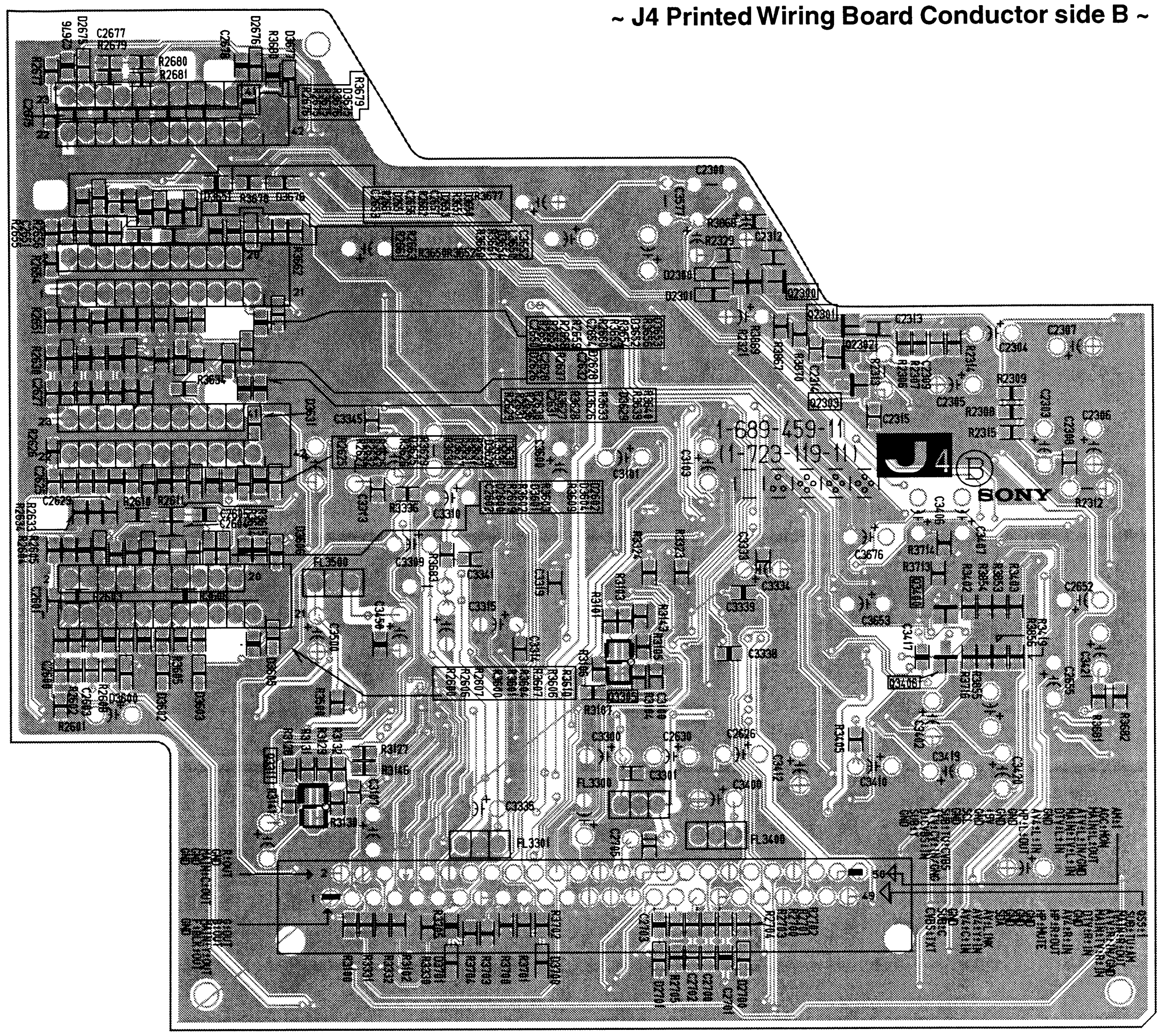
A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10 11

~ J4 Printed Wiring Board Conductor side A ~


J4
A
1-689-459-11
(1-723-119-11)
SONY
ICT
CBA

~ J4 Printed Wiring Board Conductor side B ~


1-689-459-11
(1-723-119-11)
J4
B
SONY

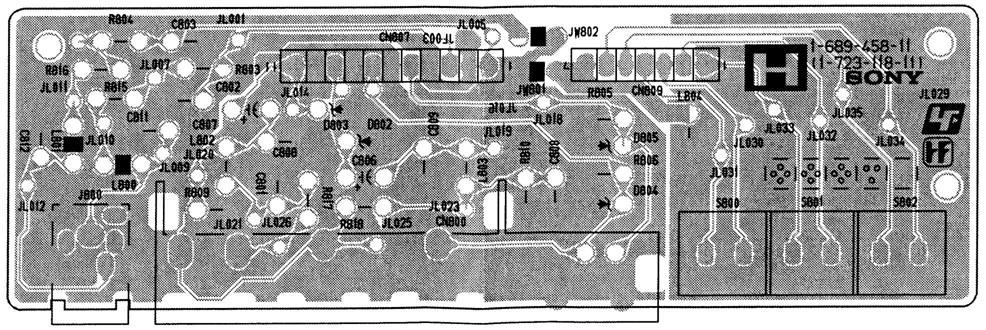
~ J4 Board Location Table A side ~

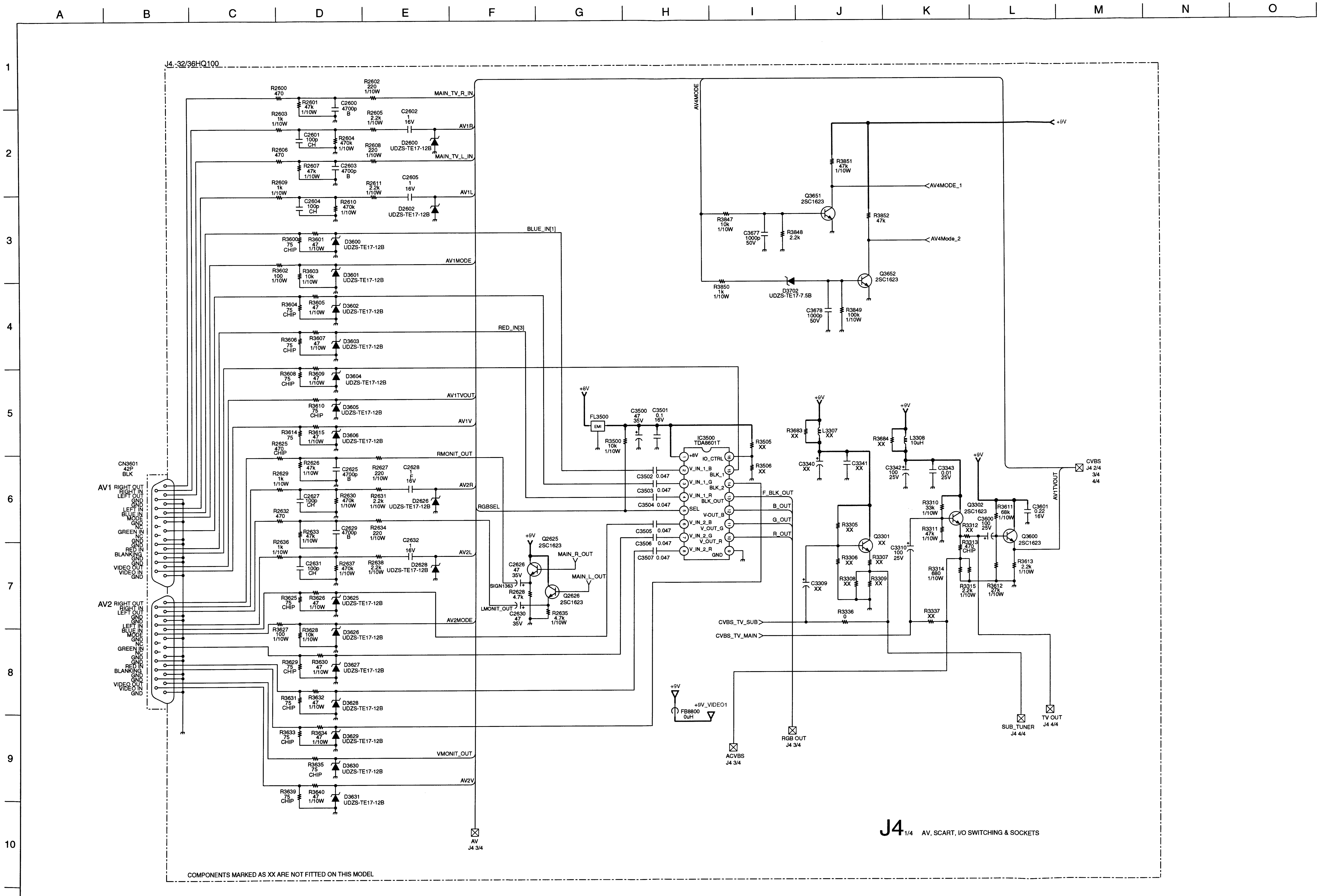
DIODE	
D2650	B - 4
D2652	B - 4
D3702	G - 2
IC	
IC2300	B - 3
IC3300	C - 4
IC3400	B - 4
IC3500	E - 5
TRANSISTORS	
Q2625	C - 5
Q2626	C - 5
Q3300	D - 5
Q3302	F - 4
Q3303	A - 5
Q3306	C - 4
Q3310	E - 6
Q3312	F - 5
Q3401	C - 4
Q3402	C - 5
Q3403	C - 4
Q3404	C - 5
Q3405	C - 5
Q3407	A - 5
Q3410	E - 4
Q3600	E - 3
Q3625	A - 5
Q3650	D - 5
Q3651	F - 2
Q3652	F - 2
Q8824	D - 2

~ J4 Board Location Table B side ~

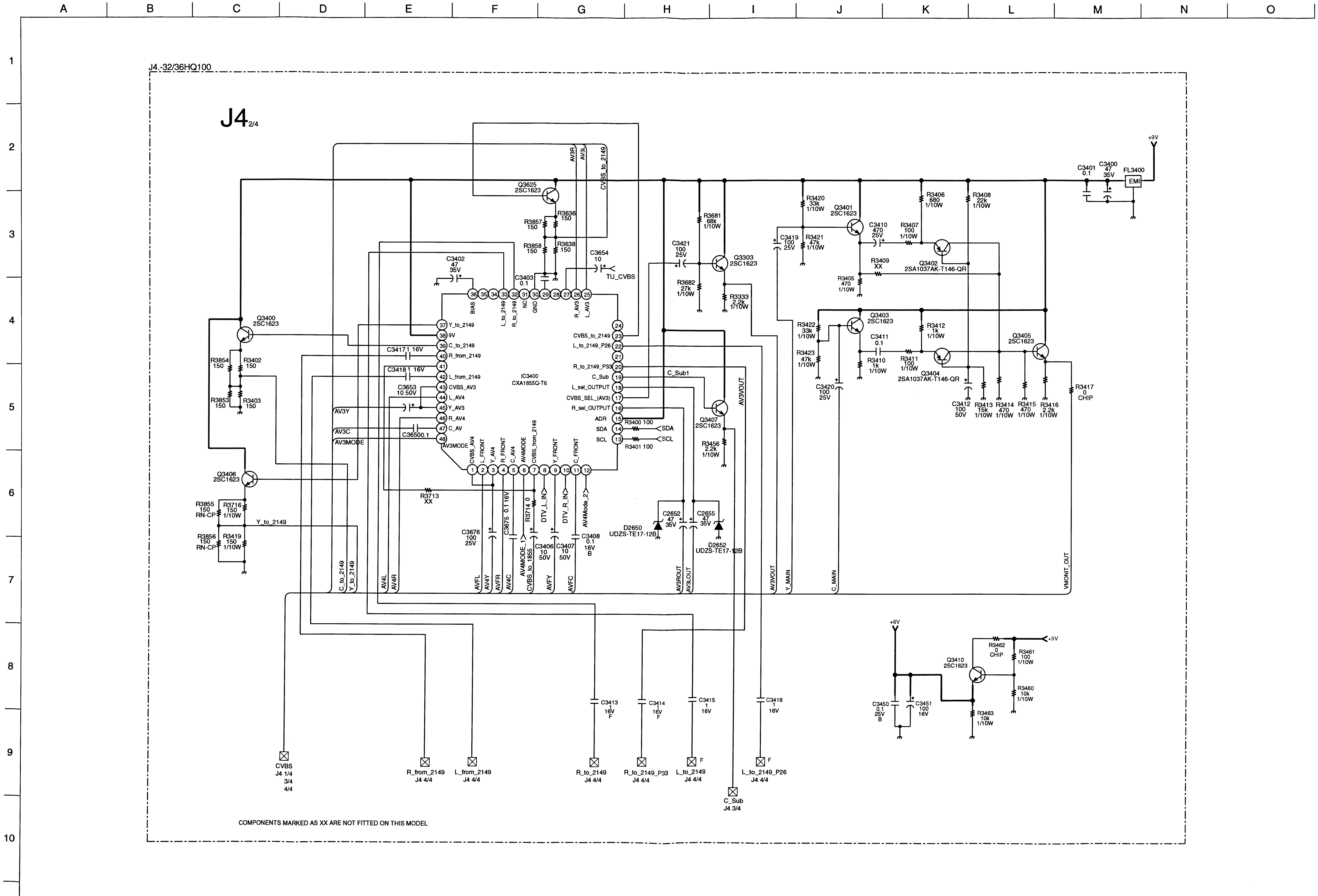
DIODE	
D2300	L - 2
D2600	K - 4
D2602	K - 4
D2626	K - 3
D2651	J - 2
D2675	I - 1
D2676	I - 1
D2700	L - 6
D2701	L - 6
D3601	K - 4
D3602	I - 5
D3603	I - 5
D3604	K - 4
D3605	I - 5
D3606	J - 4
D3625	J - 3
D3626	K - 3
D3627	K - 3
D3628	K - 3
D3630	K - 3
D3631	J - 3
D3650	K - 2
D3651	I - 2
D3652	K - 3
D3653	J - 2
D3654	K - 2
D3675	J - 2
D3676	J - 2
D3677	J - 1
D3700	K - 6
D3701	J - 6
TRANSISTOR	
Q2300	M - 2
Q2301	M - 3
Q2302	M - 3
Q2303	M - 3
Q3305	K - 5
Q3311	I - 5
Q3400	M - 4
Q3406	M - 5

~ H Printed Wiring Board Conductor side ~


1-689-458-11
(1-723-118-11)
SONY
H


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
J4.-32/36HQ100
R2600 470
R2601 47k 1/10W
C2600 4700p B
R2602 220 1/10W
MAIN_TV_R_IN
R2603 1k 1/10W
R2605 2.2k 1/10W
C2602 1 16V
AV1R
C2601 100p CH
R2604 470k 1/10W
R2608 220 1/10W
D2600 UDZS-TE17-12B
R2606 470
MAIN_TV_L_IN
R2607 47k 1/10W
C2603 4700p B
R2609 1k 1/10W
R2611 2.2k 1/10W
C2605 1 16V
AV1L
C2604 100p CH
R2610 470k 1/10W
D2602 UDZS-TE17-12B
BLUE_IN[1]
R3600 75 CHIP
R3601 47 1/10W
D3600 UDZS-TE17-12B
AV1MODE
R3602 100 1/10W
R3603 10k 1/10W
D3601 UDZS-TE17-12B
R3604 75 CHIP
R3605 47 1/10W
D3602 UDZS-TE17-12B
RED_IN[3]
R3606 75 CHIP
R3607 47 1/10W
D3603 UDZS-TE17-12B
R3608 75 CHIP
R3609 47 1/10W
D3604 UDZS-TE17-12B
AV1TVOUT
R3610 75 CHIP
D3605 UDZS-TE17-12B
AV1V
R3614 75
R3615 47 1/10W
D3606 UDZS-TE17-12B
R2625 470 CHIP
RMONIT_OUT
R2626 47k 1/10W
C2625 4700p B
R2627 220 1/10W
C2628 1 F 16V
R2629 1k 1/10W
AV2R
C2627 100p CH
R2630 470k 1/10W
R2631 2.2k 1/10W
D2626 UDZS-TE17-12B
RGBSEL
R2632 470
R2633 47k 1/10W
C2629 4700p B
R2634 220 1/10W
R2636 1k 1/10W
C2632 1 16V
AV2L
C2631 100p CH
R2637 470k 1/10W
R2638 2.2k 1/10W
D2628 UDZS-TE17-12B
CN3601 42P BLK
AV1
RIGHT OUT
RIGHT IN
LEFT OUT
GND
GND
LEFT IN
BLUE IN
MODE
GND
NC
GREEN IN
GND
NC
GND
RED IN
BLANKING
GND
GND
VIDEO OUT
VIDEO IN
GND
AV2
RIGHT OUT
RIGHT IN
LEFT OUT
GND
GND
LEFT IN
BLUE IN
MODE
GND
NC
GREEN IN
GND
NC
GND
RED IN
BLANKING
GND
GND
VIDEO OUT
VIDEO IN
GND
R3625 75 CHIP
R3626 47 1/10W
D3625 UDZS-TE17-12B
AV2MODE
R3627 100 1/10W
R3628 10k 1/10W
D3626 UDZS-TE17-12B
R3629 75 CHIP
R3630 47 1/10W
D3627 UDZS-TE17-12B
R3631 75 CHIP
R3632 47 1/10W
D3628 UDZS-TE17-12B
R3633 75 CHIP
R3634 47 1/10W
D3629 UDZS-TE17-12B
VMONIT_OUT
R3635 75 CHIP
D3630 UDZS-TE17-12B
AV2V
R3639 75 CHIP
R3640 47 1/10W
D3631 UDZS-TE17-12B
AV J4 3/4
+9V
Q2625 2SC1623
MAIN_R_OUT
C2626 47 35V
MAIN_L_OUT
SIGN1363
R2628 4.7k
Q2626 2SC1623
LMONIT_OUT
C2630 47 35V
R2635 4.7k 1/10W
+8V
FL3500
EMI
C3500 47 35V
C3501 0.1 16V
R3500 10k 1/10W
IC3500 TDA8601T
+8V
IO_CTRL
V_IN_1_B
BLK_1
V_IN_1_G
BLK_2
V_IN_1_R
BLK_OUT
SEL
V-OUT_B
V_IN_2_B
V_OUT_G
V_IN_2_G
V_OUT_R
V_IN_2_R
GND
C3502 0.047
C3503 0.047
C3504 0.047
C3505 0.047
C3506 0.047
C3507 0.047
R3505 XX
R3506 XX
F_BLK_OUT
B_OUT
G_OUT
R_OUT
AV4MODE
+9V
R3851 47k 1/10W
AV4MODE_1
Q3651 2SC1623
R3847 10k 1/10W
C3677 1000p 50V
R3848 2.2k
R3852 47k
AV4Mode_2
Q3652 2SC1623
R3850 1k 1/10W
D3702 UDZS-TE17-7.5B
C3678 1000p 50V
R3849 100k 1/10W
+9V
R3683 XX
L3307 XX
C3340 XX
C3341 XX
R3305 XX
Q3301 XX
R3306 XX
R3307 XX
R3308 XX
R3309 XX
C3309 XX
R3336 0
+9V
R3684 XX
L3308 10uH
C3342 100 25V
C3343 0.01 25V
+9V
R3310 33k 1/10W
Q3302 2SC1623
R3611 68k 1/10W
C3601 0.22 16V
R3311 47k 1/10W
R3312 XX
C3600 100 25V
C3310 100 25V
R3313 470 CHIP
Q3600 2SC1623
R3613 2.2k 1/10W
R3314 680 1/10W
R3315 2.2k 1/10W
R3612 27k 1/10W
R3337 XX
AV1TVOUT
CVBS J4 2/4 3/4 4/4
CVBS_TV_SUB
CVBS_TV_MAIN
+9V
+9V_VIDEO1
FB8800 0uH
ACVBS J4 3/4
RGB OUT J4 3/4
SUB_TUNER J4 4/4
TV OUT J4 4/4
J4 1/4 AV, SCART, I/O SWITCHING & SOCKETS
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ J4 Board Schematic Diagram [AV, Scart, I/O Switching & Sockets]Page 1/4 ~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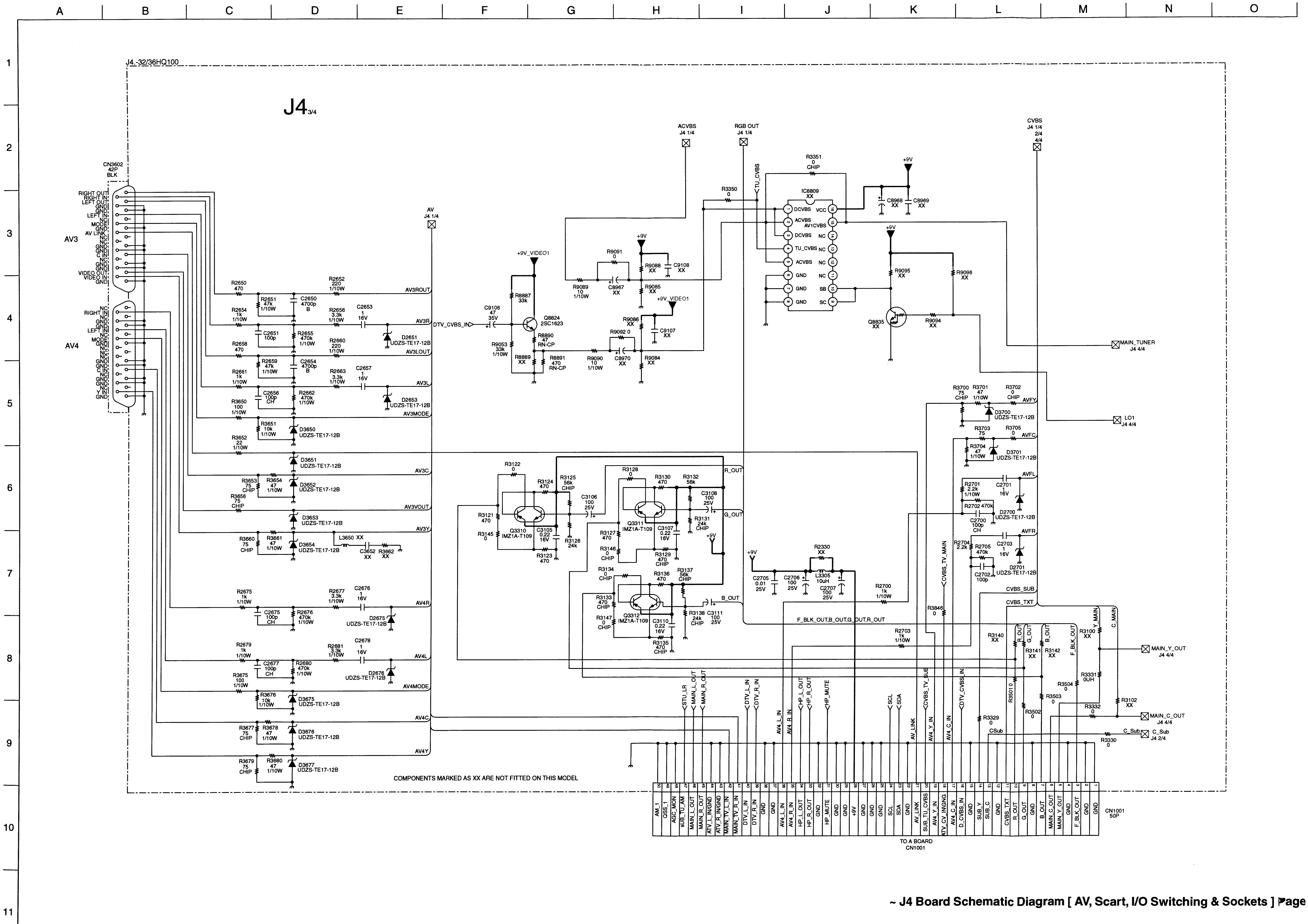
11
J4.-32/36HQ100
J4 2/4
IC3400
CXA1855Q-T6
Q3625
2SC1623
Q3400
2SC1623
Q3406
2SC1623
Q3303
2SC1623
Q3407
2SC1623
Q3401
2SC1623
Q3402
2SA1037AK-T146-QR
Q3403
2SC1623
Q3404
2SA1037AK-T146-QR
Q3405
2SC1623
Q3410
2SC1623
FL3400
EMI
+9V
+8V
D2650
UDZS-TE17-12B
D2652
UDZS-TE17-12B
C3401 0.1
C3400 47 35V
C3402 47 35V
C3403 0.1
C3654 10
TU_CVBS
C3417 1 16V
C3418 1 16V
C3653 10 50V
C3650 0.1
C3676 100 25V
C3675 0.1 16V
C3406 10 50V
C3407 10 50V
C3408 0.1 16V B
C3421 100 25V
C3419 100 25V
C3410 470 25V
C3411 0.1
C3420 100 25V
C3412 100 50V
C2652 47 35V
C2655 47 35V
C3413 1 16V F
C3414 1 16V F
C3415 1 16V
C3416 1 16V
C3450 0.1 25V B
C3451 100 16V
R3857 150
R3636 150
R3858 150
R3638 150
R3854 150
R3402 150
R3853 150
R3403 150
R3855 150 RN-CP
R3716 150 1/10W
R3856 150 RN-CP
R3419 150 1/10W
R3713 XX
R3714 0
R3681 68k 1/10W
R3682 27k 1/10W
R3333 2.2k 1/10W
R3456 2.2k 1/10W
R3400 100
R3401 100
R3420 33k 1/10W
R3421 47k 1/10W
R3406 680 1/10W
R3408 22k 1/10W
R3407 100 1/10W
R3409 XX
R3405 470 1/10W
R3422 33k 1/10W
R3423 47k 1/10W
R3412 1k 1/10W
R3410 1k 1/10W
R3411 100 1/10W
R3413 15k 1/10W
R3414 470 1/10W
R3415 470 1/10W
R3416 2.2k 1/10W
R3417 0 CHIP
R3462 0 CHIP
R3461 100 1/10W
R3460 10k 1/10W
R3463 10k 1/10W
AV3R
AV3L
CVBS_to_2149
BIAS
L_to_2149
R_to_2149
NC
GND
R_AV3
L_AV3
Y_to_2149
9V
C_to_2149
R_from_2149
L_from_2149
CVBS_AV3
L_AV4
Y_AV3
R_AV4
C_AV
AV3MODE
CVBS_to_2149
L_to_2149_P26
R_to_2149_P33
C_Sub
L_sel_OUTPUT
CVBS_SEL_(AV3)
R_sel_OUTPUT
ADR
SDA
SCL
CVBS_AV4
L_FRONT
Y_AV4
R_FRONT
C_AV4
AV4MODE
CVBS_from_2149
Y_FRONT
C_FRONT
DTV_L_IN
DTV_R_IN
AV4Mode_2
AV4MODE_1
CVBS_to_1855
AV3Y
AV3C
AV3MODE
C_Sub1
AV3VOUT
Y_to_2149
C_to_2149
AV4L
AV4R
AVFL
AV4Y
AVFR
AV4C
AVFY
AVFC
AV3ROUT
AV3LOUT
Y_MAIN
C_MAIN
VMONIT_OUT
CVBS
J4 1/4
3/4
4/4
R_from_2149
J4 4/4
L_from_2149
J4 4/4
R_to_2149
J4 4/4
R_to_2149_P33
J4 4/4
L_to_2149
J4 4/4
L_to_2149_P26
J4 4/4
C_Sub
J4 3/4
F

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ J4 Board Schematic Diagram [AV, Scart, I/O Switching & Sockets] Page 2/4 ~


A
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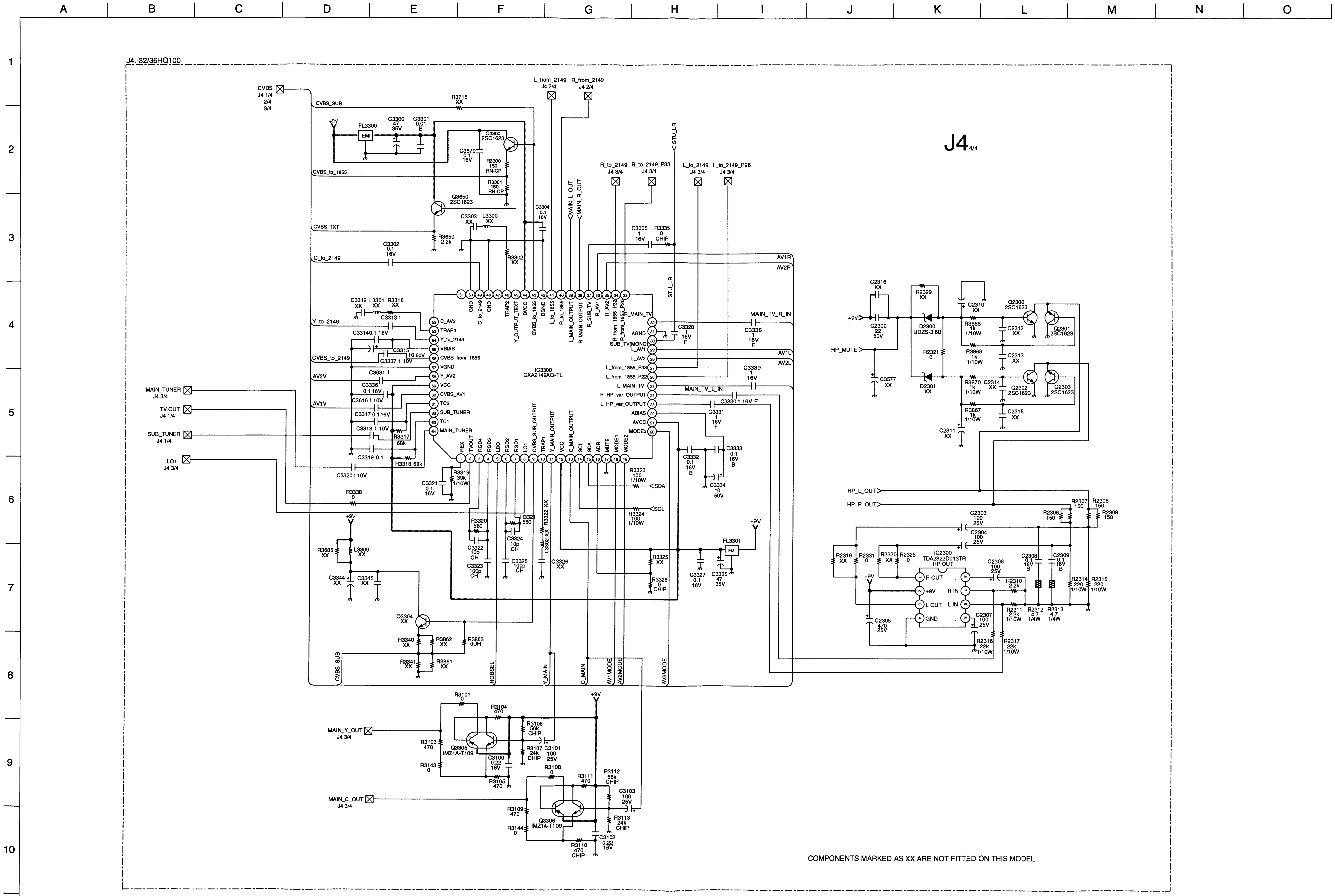
6
7
8
9
10
11
J4.-32/36HQ100
J4 3/4
CN3602 42P BLK
RIGHT OUT
RIGHT IN
LEFT OUT
GND
LEFT IN
NC
MODE
GND
AV LINK
C IN
VIDEO OUT
VIDEO IN
Y IN
AV3
AV4
AV J4 1/4
ACVBS J4 1/4
RGB OUT J4 1/4
CVBS J4 1/4 2/4 4/4
R2650 470
R2651 47k 1/10W
C2650 4700p B
R2652 220 1/10W
AV3ROUT
R2654 1k 1/10W
R2656 3.3k 1/10W
C2653 1 16V
AV3R
C2651 100p
R2655 470k 1/10W
D2651 UDZS-TE17-12B
R2658 470
R2660 220 1/10W
AV3LOUT
R2659 47k 1/10W
C2654 4700p B
R2661 1k 1/10W
R2663 3.3k 1/10W
C2657 1 16V
AV3L
R3650 100 1/10W
C2656 100p CH
R2662 470k 1/10W
D2653 UDZS-TE17-12B
AV3MODE
R3651 10k 1/10W
D3650 UDZS-TE17-12B
R3652 22 1/10W
D3651 UDZS-TE17-12B
AV3C
R3653 75 CHIP
R3654 47 1/10W
D3652 UDZS-TE17-12B
R3656 75 CHIP
AV3VOUT
D3653 UDZS-TE17-12B
AV3Y
R3660 75 CHIP
R3661 47 1/10W
D3654 UDZS-TE17-12B
L3650 XX
C3652 XX
R3662 XX
R2675 1k 1/10W
R2677 3.3k 1/10W
C2676 1 16V
AV4R
C2675 100p CH
R2676 470k 1/10W
D2675 UDZS-TE17-12B
R2679 1k 1/10W
R2681 3.3k 1/10W
C2678 1 16V
AV4L
C2677 100p CH
R2680 470k 1/10W
D2676 UDZS-TE17-12B
R3675 100 1/10W
AV4MODE
R3676 10k 1/10W
D3675 UDZS-TE17-12B
AV4C
R3677 75 CHIP
R3678 47 1/10W
D3676 UDZS-TE17-12B
AV4Y
R3679 75 CHIP
R3680 47 1/10W
D3677 UDZS-TE17-12B
DTV_CVBS_IN
+9V_VIDEO1
R8887 33k
C9106 47 35V
Q8824 2SC1623
R8890 47 RN-CP
R9053 33k 1/10W
R8889 XX
R8891 470 RN-CP
R9091 0
R9089 10 1/10W
C8967 XX
+9V
R9088 XX
C9108 XX
R9085 XX
R9086 XX
R9092 0
C9107 XX
R9090 10 1/10W
C8970 XX
R9084 XX
R3350 0
TU_CVBS
R3351 0 CHIP
IC8809 XX
DCVBS
ACVBS
TU_CVBS
GND
VCC
AV1CVBS
NC
SB
SC
C8968 XX
C8969 XX
R9095 XX
R9096 XX
Q8835 XX
R9094 XX
MAIN_TUNER J4 4/4
LO1 J4 4/4
R3700 75 CHIP
R3701 47 1/10W
R3702 0 CHIP
AVFY
D3700 UDZS-TE17-12B
R3703 75
R3705 0
AVFC
R3704 47 1/10W
D3701 UDZS-TE17-12B
AVFL
R2701 2.2k 1/10W
C2701 1 16V
R2702 470k
C2700 100p CH
D2700 UDZS-TE17-12B
AVFR
R2704 2.2k
R2705 470k
C2703 1 16V
C2702 100p
D2701 UDZS-TE17-12B
CVBS_SUB
CVBS_TXT
CVBS_TV_MAIN
R3122 0
R3124 470
R3125 56k CHIP
C3106 100 25V
R3121 470
R3145 0
Q3310 IMZ1A-T109
C3105 0.22 16V
R3126 24k
R3123 470
R3128 0
R3130 470
R3132 56k
R_OUT
C3108 100 25V
G_OUT
Q3311 IMZ1A-T109
R3127 470
C3107 0.22 16V
R3131 24k CHIP
R3146 0 CHIP
R3129 470 CHIP
R3134 0 CHIP
R3136 470
R3137 56k CHIP
R3133 470 CHIP
B_OUT
R3147 0 CHIP
Q3312 IMZ1A-T109
C3110 0.22 16V
R3138 24k CHIP
C3111 100 25V
R3135 470 CHIP
R2330 XX
C2705 0.01 25V
C2706 100 25V
L3305 10uH
C2707 100 25V
R2700 1k 1/10W
R3846 0
F_BLK_OUT,B_OUT,G_OUT,R_OUT
R2703 1k 1/10W
R3140 XX
R3141 XX
R3142 XX
R3100 XX
Y_MAIN
C_MAIN
MAIN_Y_OUT J4 4/4
R3331 0UH
R3504 0
R3503 0
R3501 0
R3502 0
R3332 0
R3102 XX
MAIN_C_OUT J4 4/4
R3329 0
CSub
C_Sub J4 2/4
R3330 0
STU_LR
MAIN_L_OUT
MAIN_R_OUT
DTV_L_IN
DTV_R_IN
AV4_L_IN
AV4_R_IN
HP_L_OUT
HP_R_OUT
HP_MUTE
SCL
SDA
CVBS_TV_SUB
AV_LINK
AV4_Y_IN
AV4_C_IN
DTV_CVBS_IN
AM_1
QSS_1
AGC_MON
sUB_TU_AM
ATV_L_IN/GND
ATV_R_IN/GND
MAIN_TV_L_IN
MAIN_TV_R_IN
GND
SUB_TU_CVBS
ATV_CV_IN/GND
D_CVBS_IN
SUB_Y
SUB_C
CVBS_TXT
F_BLK_OUT
CN1001 50P
TO A BOARD CN1001

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ J4 Board Schematic Diagram [AV, Scart, I/O Switching & Sockets] Page 3/4 ~

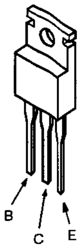

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
J4.-32/36HQ100
J4 4/4
CVBS
J4 1/4
2/4
3/4
CVBS_SUB
CVBS_to_1855
CVBS_TXT
C_to_2149
Y_to_2149
CVBS_to_2149
AV2V
AV1V
L_from_2149
J4 2/4
R_from_2149
J4 2/4
R3715
XX
+9V
FL3300
EMI
C3300
47
35V
C3301
0.01
B
Q3300
2SC1623
C3679
0.1
16V
R3300
150
RN-CP
R3301
150
RN-CP
Q3650
2SC1623
R3659
2.2k
C3303
XX
L3300
XX
C3304
0.1
16V
R3302
XX
C3302
0.1
16V
STU_LR
R_to_2149
J4 3/4
R_to_2149_P33
J4 3/4
L_to_2149
J4 3/4
L_to_2149_P26
J4 3/4
MAIN_L_OUT
MAIN_R_OUT
C3305
1
16V
R3335
0
CHIP
AV1R
AV2R
AV1L
AV2L
C3312
XX
L3301
XX
R3316
XX
C3313 1
C3314 0.1 16V
C3315 10 50V
C3337 1 10V
C3631 1
C3336 0.1 16V
C3616 1 10V
C3317 0.1 16V
C3318 1 10V
R3317 68k
C3319 0.1
R3318 68k
C3320 1 10V
IC3300
CXA2149AQ-TL
C_AV2
TRAP3
Y_to_2149
VBIAS
CVBS_from_1855
VGND
Y_AV2
VCC
CVBS_AV1
TC2
SUB_TUNER
TC1
MAIN_TUNER
GND
C_to_2149
GND
TRAP2
Y_OUTPUT_TEXT
DVCC
CVBS_to_1855
DGND
L_to_1855
R_to_1855
L_MAIN_OUTPUT
R_MAIN_OUTPUT
R_SUB_TV
R_AV1
R_AV2
R_from_1855_P32
R_from_1855_P20
R_MAIN_TV
AGND
SUB_TV(MONO)
L_AV1
L_AV2
L_from_1855_P33
L_from_1855_P22
L_MAIN_TV
R_HP_var_OUTPUT
L_HP_var_OUTPUT
ABIAS
AVCC
MODE3
REX
TVOUT
RGD4
RGD3
LDO
RGD2
RGD1
LO1
TRAP1
CVBS_SUB_OUTPUT
Y_MAIN_OUTPUT
VCC
C_MAIN_OUTPUT
SCL
SDA
ADR
MUTE
MODE1
MODE2
C3328
1
16V
F
MAIN_TV_R_IN
C3338
1
16V
F
C3339
1
16V
MAIN_TV_L_IN
C3330 1 16V F
C3331
1
16V
F
C3332
0.1
16V
B
C3333
0.1
16V
B
C3334
10
50V
R3323
100
1/10W
SDA
R3324
100
1/10W
SCL
MAIN_TUNER
J4 3/4
TV OUT
J4 1/4
SUB_TUNER
J4 1/4
LO1
J4 3/4
C3321
0.1
16V
R3319
39k
1/10W
R3338
0
+9V
R3685
XX
L3309
XX
C3344
XX
C3345
XX
R3320
560
R3321
560
R3322 XX
C3322
10p
CH
C3324
10p
CH
C3323
100p
CH
C3325
100p
CH
L3302 XX
C3326
XX
FL3301
EMI
+9V
R3325
XX
R3326
0
CHIP
C3327
0.1
16V
C3335
47
35V
Q3304
XX
R3340
XX
R3862
XX
R3863
0UH
R3341
XX
R3861
XX
CVBS_SUB
RGBSEL
Y_MAIN
C_MAIN
AV1MODE
AV2MODE
AV3MODE
R3101
0
R3104
470
+9V
MAIN_Y_OUT
J4 3/4
R3106
56k
CHIP
R3103
470
Q3305
IMZ1A-T109
R3107
24k
CHIP
C3101
100
25V
C3100
0.22
16V
R3143
0
R3105
470
R3108
0
R3111
470
R3112
56k
CHIP
MAIN_C_OUT
J4 3/4
C3103
100
25V
R3109
470
Q3306
IMZ1A-T109
R3113
24k
CHIP
R3144
0
C3102
0.22
16V
R3110
470
CHIP
C2316
XX
R2329
XX
C2310
XX
Q2300
2SC1623
+9V
C2300
22
50V
D2300
UDZS-3.6B
R3868
1k
1/10W
C2312
XX
Q2301
2SC1623
HP_MUTE
R2321
0
R3869
1k
1/10W
C2313
XX
C3577
XX
D2301
XX
R3870
1k
1/10W
C2314
XX
Q2302
2SC1623
Q2303
2SC1623
R3867
1k
1/10W
C2315
XX
C2311
XX
HP_L_OUT
HP_R_OUT
R2307
150
R2308
150
R2306
150
R2309
150
C2303
100
25V
C2304
100
25V
R2319
XX
R2331
0
R2320
XX
R2325
0
IC2300
TDA2822D013TR
HP OUT
C2306
100
25V
C2308
0.1
16V
B
C2309
0.1
16V
B
+9V
R OUT
+9V
R IN
L OUT
L IN
GND
R2310
2.2k
R2314
220
1/10W
R2315
220
1/10W
C2305
470
25V
C2307
100
25V
R2311
2.2k
1/10W
R2312
4.7
1/4W
R2313
4.7
1/4W
R2316
22k
1/10W
R2317
22k
1/10W

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

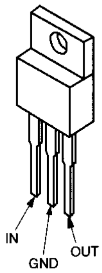
~ J4 Board Schematic Diagram [AV, Scart, I/O Switching & Sockets]Page 4/4 ~

5-4. SEMICONDUCTORS

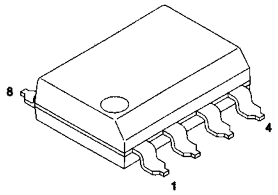
BA033T



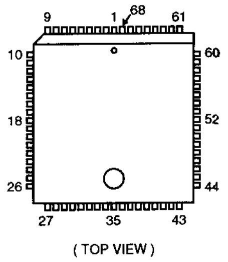
BA05T



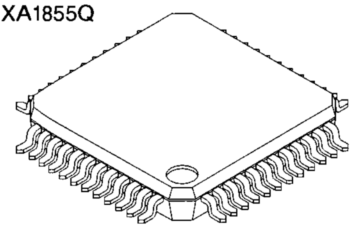
DS90LV017ATMX
DS90LV018ATMX



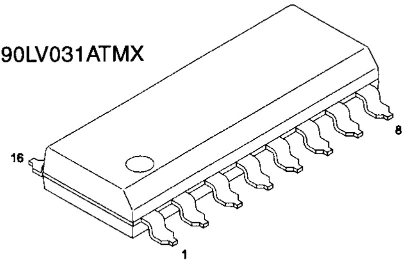
MSP3411G-QA-B11


9
1
68
61
10
60
18
52
26
44
27
35
43
(TOP VIEW)

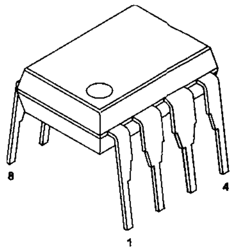
CXA1855Q



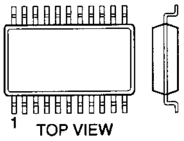
DS90LV031ATMX



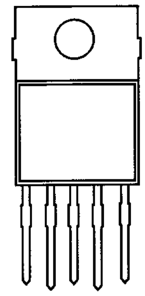
NJM082M



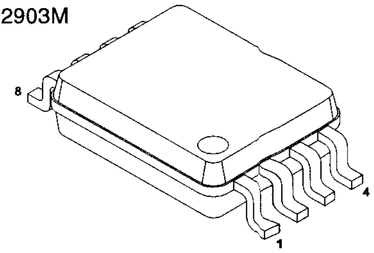
CXA1875AM-T4
LM358D
NJM3403AM
TDA2822D013TR



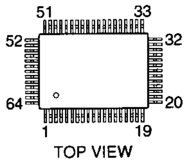
LA6500-FA



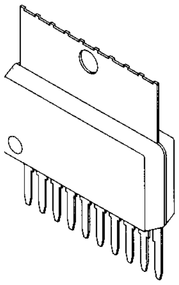
NJM2903M



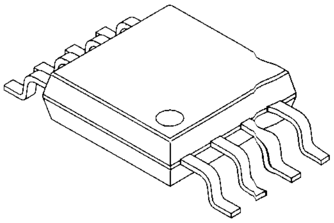
CXA2149AQ-TL


51
33
52
32
64
20
1
19
TOP VIEW

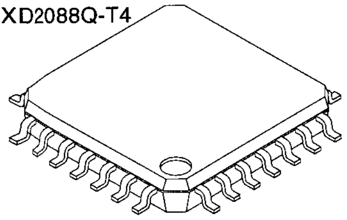
LA6510



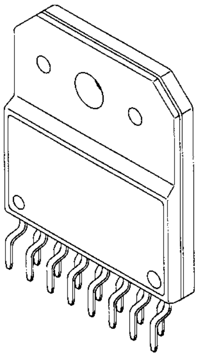
NJM2904M



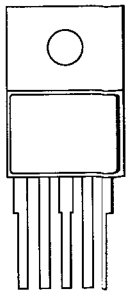
CXD2088Q-T4



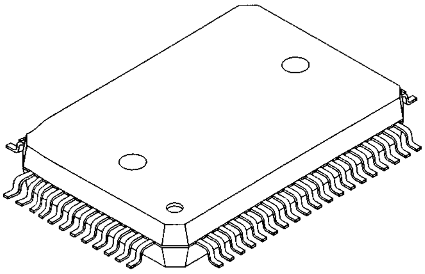
LM1876TF



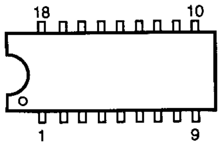
PQ1CG2032FZ



CXD9761Q



MCZ3001D
MCZ3001DA



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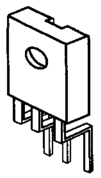
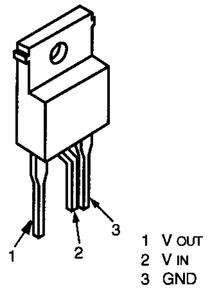
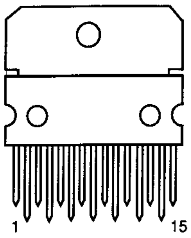


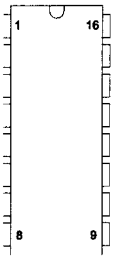
SE135N-LF4


1
2
3
1 V OUT
2 V IN
3 GND

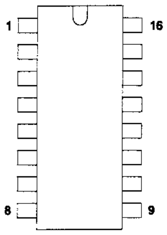
TDA7482



SN65LVDS32DR



TDA8601T



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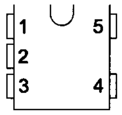
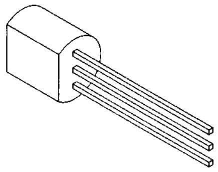
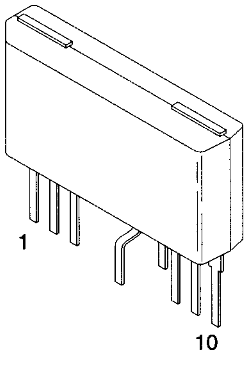


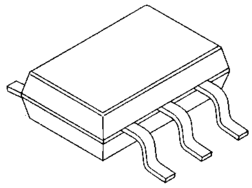
TL1431CZ-AP



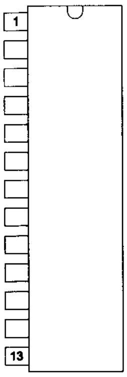
STR-L474-LF429



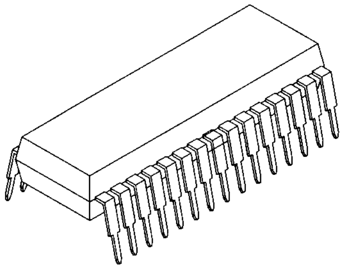
TLV431AIDBV



TDA6120Q/N2/S1

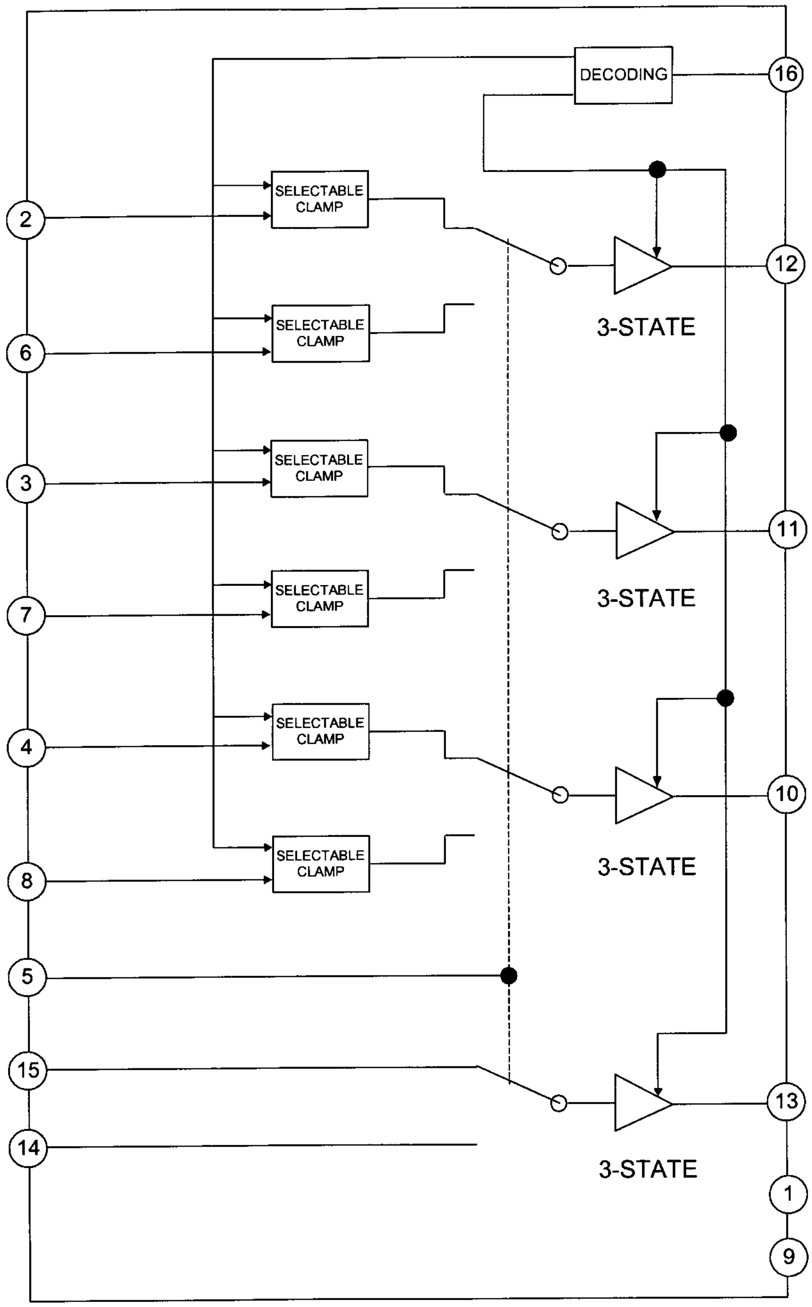


UPC1898CT-A

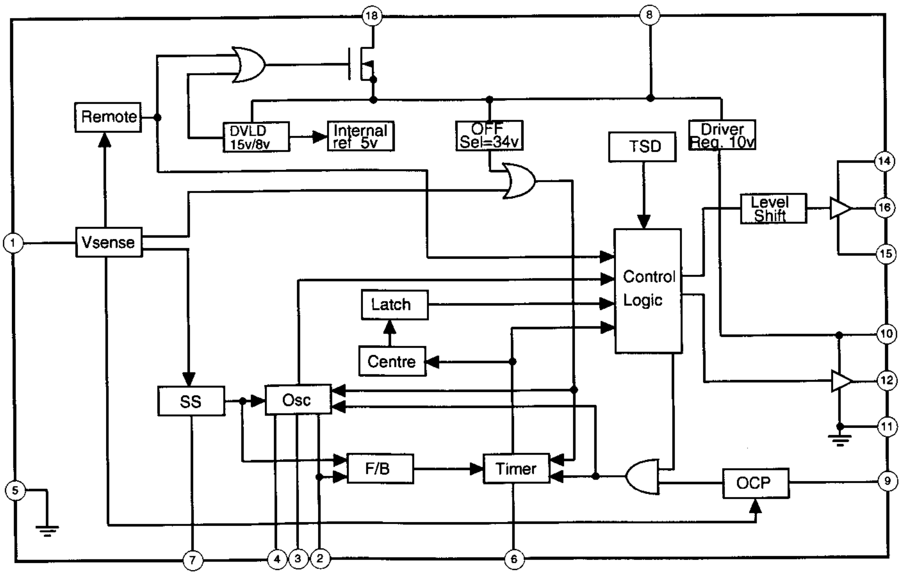


5-5 IC BLOCK DIAGRAMS

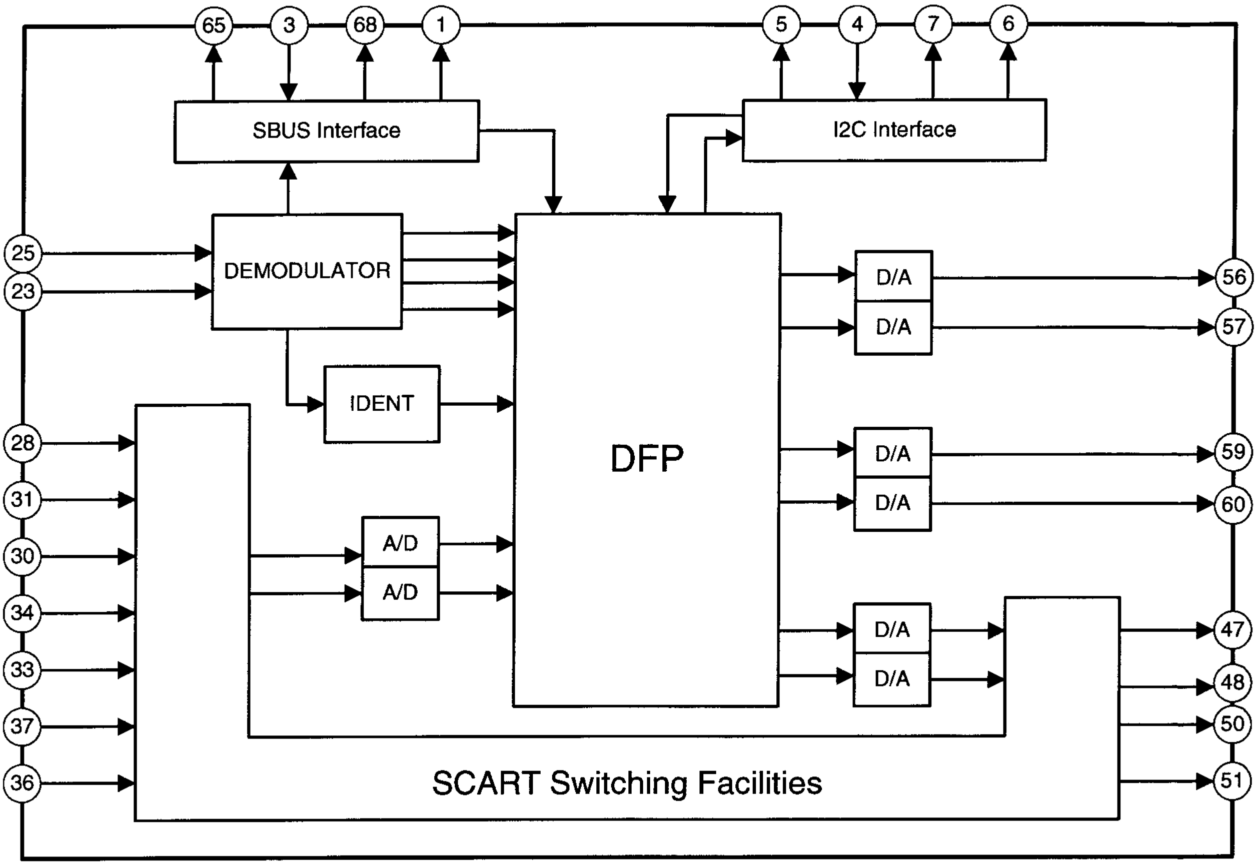
J4 BOARD IC3500 TDA8601T


DECODING
16
SELECTABLE CLAMP
2
SELECTABLE CLAMP
6
SELECTABLE CLAMP
3
SELECTABLE CLAMP
7
SELECTABLE CLAMP
4
SELECTABLE CLAMP
8
5
15
14
12
3-STATE
11
3-STATE
10
3-STATE
13
3-STATE
1
9

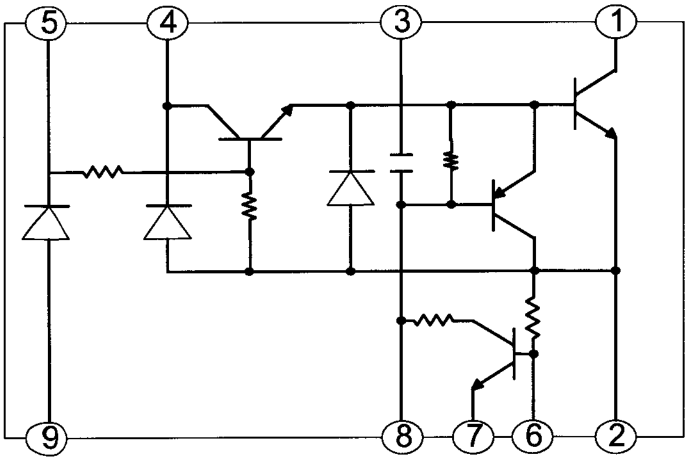
G BOARD IC6001 MCZ3001D
D2 BOARD IC6800 MCZ3001D


18
8
Remote
DVLD 15v/8v
Internal ref 5v
OFF Sel=34v
TSD
Driver Reg. 10v
14
Level Shift
16
15
1
Vsense
Control Logic
Latch
Centre
10
SS
Osc
12
11
F/B
Timer
OCP
9
5
7
4
3
2
6

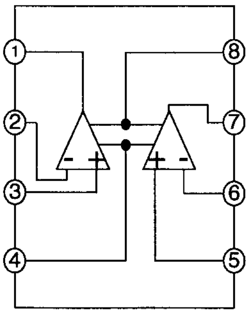
A BOARD IC2000 MSP3411G


65
3
68
1
5
4
7
6
SBUS Interface
I2C Interface
DEMODULATOR
IDENT
DFP
A/D
A/D
D/A
D/A
D/A
D/A
D/A
D/A
SCART Switching Facilities
25
23
28
31
30
34
33
37
36
56
57
59
60
47
48
50
51

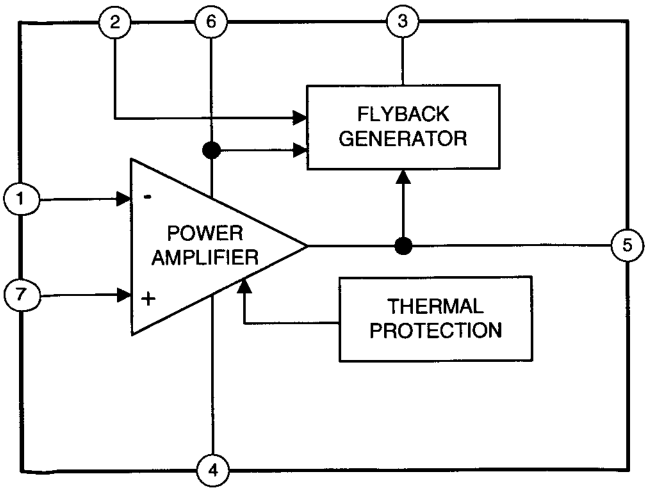
G BOARD IC6003 SE135N-LF4



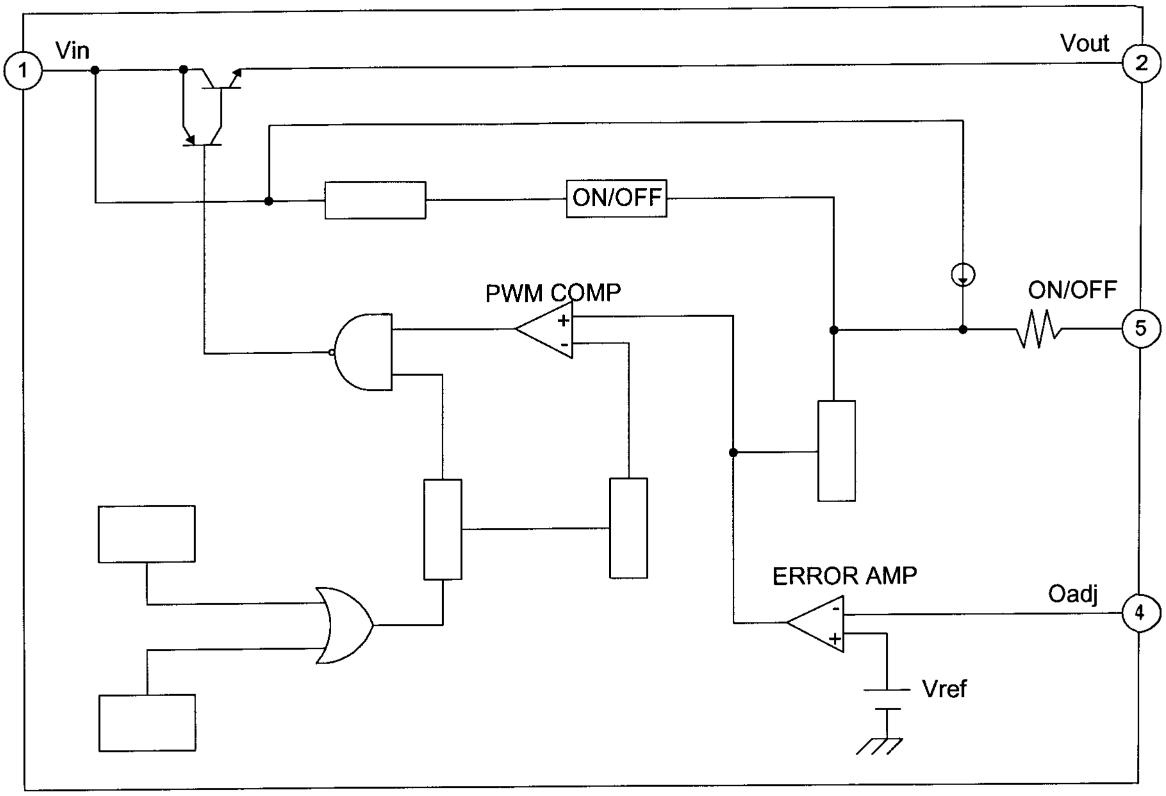
D1 BOARD IC8501 LM358



A BOARD IC5400 STV9379

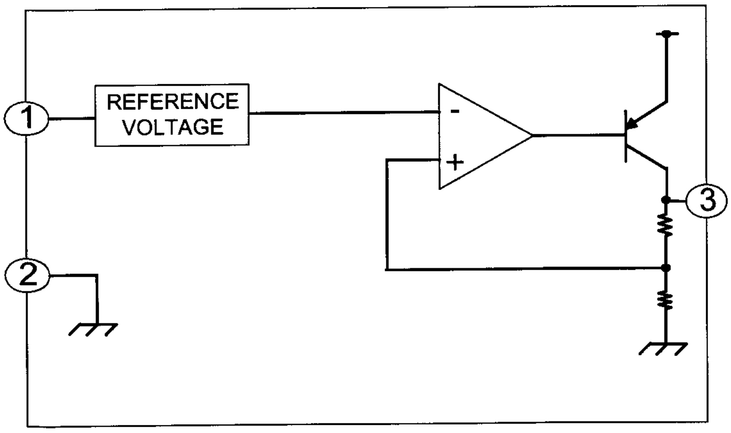

2
6
3
FLYBACK GENERATOR
1
7
-
+
POWER AMPLIFIER
5
THERMAL PROTECTION
4

A BOARD IC6211/IC6212/IC6213 PQ1CG2032FZ



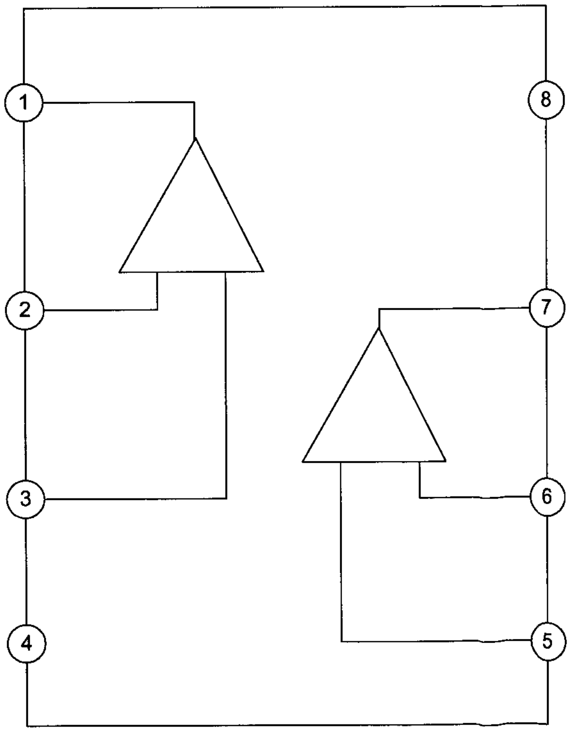
1
Vin
Vout
2
ON/OFF
PWM COMP
+
-
ON/OFF
5
ERROR AMP
Oadj
-
+
4
Vref

A BOARD IC6203/IC5600 BA033T/BA12T
SF BOARD IC5503 BA033T

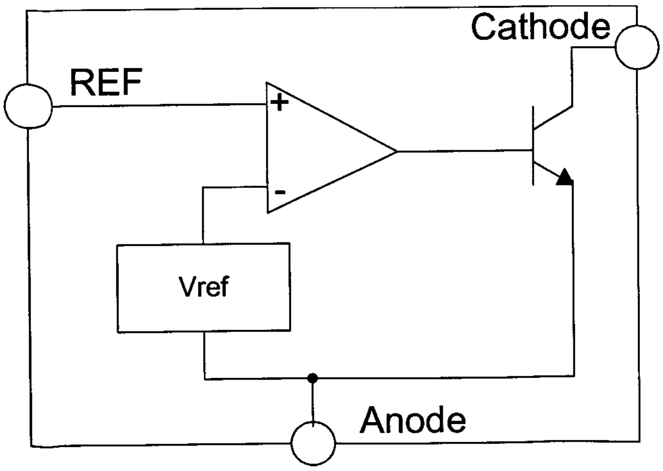


1
REFERENCE VOLTAGE
-
+
3
2

D2 BOARD IC6801/IC6802 NJM2903/NJM2904



D2 BOARD IC6803/IC6807 TLV431



Cathode
REF
+
-
Vref
Anode

SECTION 6
EXPLODED VIEWS

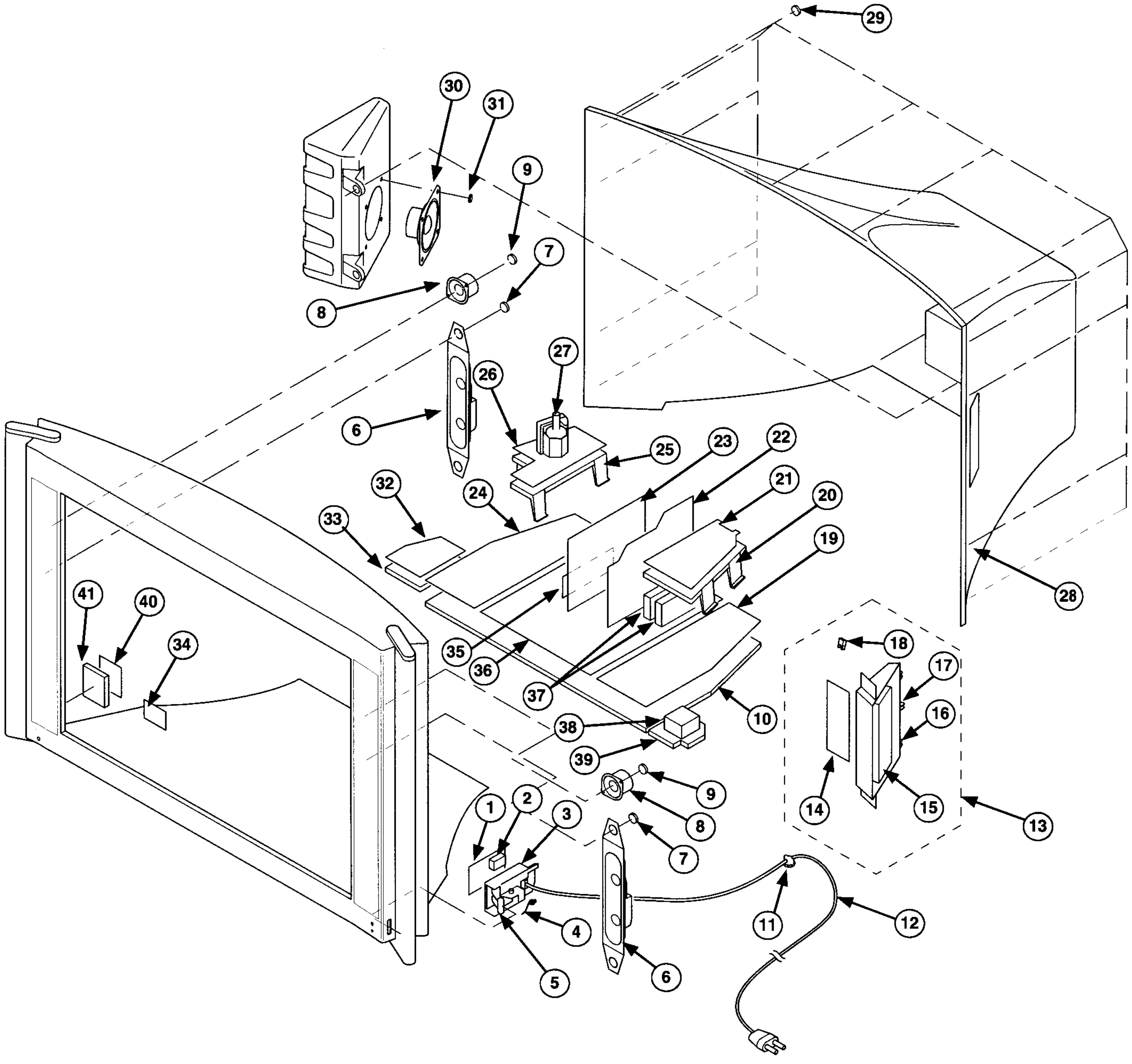
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



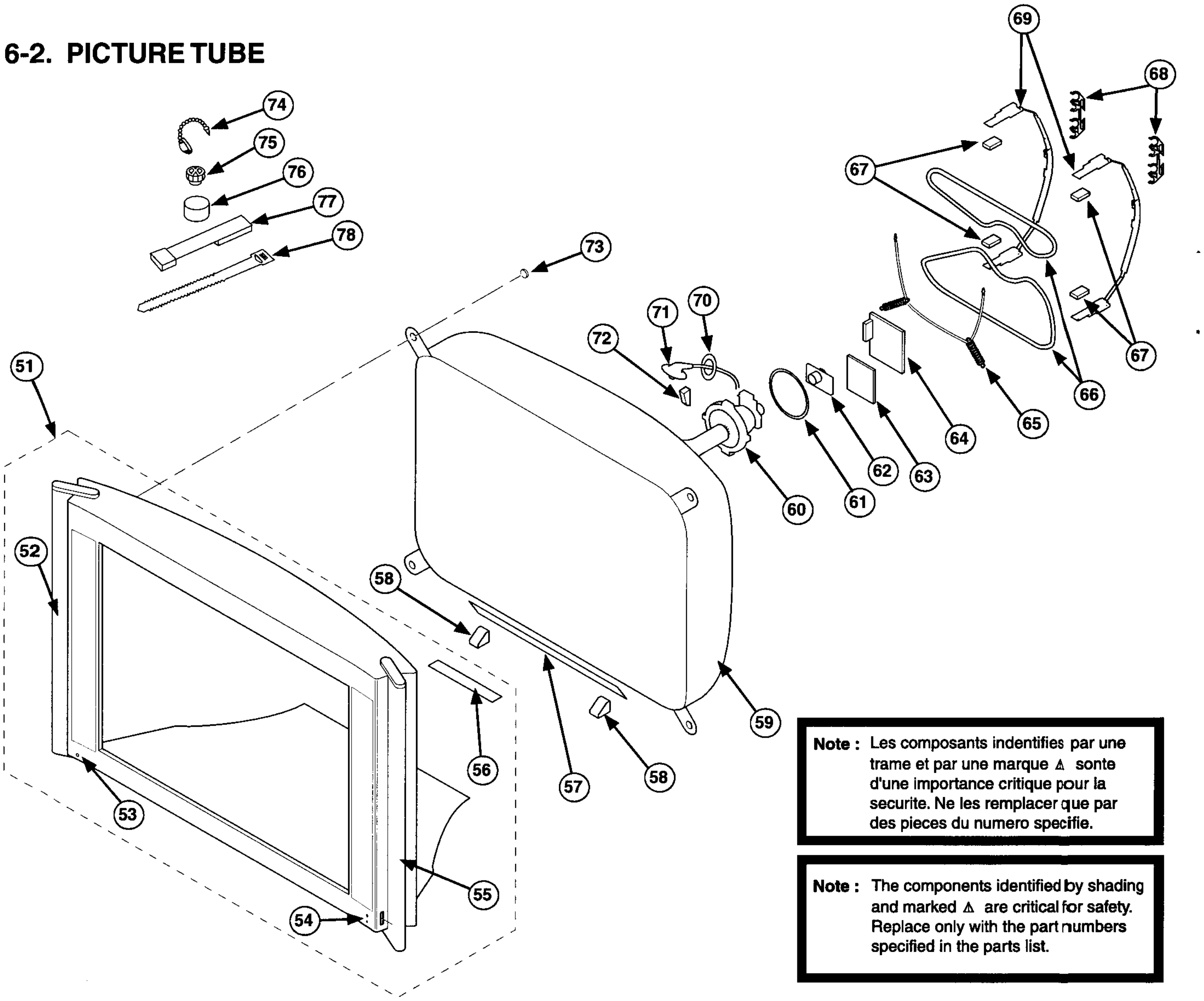
REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1405-851-A	F BOARD, COMPLETE	(KV-32HQ100B/E/K)	13	A-1604-541-A	DOOR COMPL. ASSY	(14-18)
	*A-1405-512-A	F BOARD, COMPLETE	(KV-36HQ100B/E/K)	14	*A-1405-514-A	H BOARD, COMPLETE	
2 ⚠	1-571-433-21	SWITCH, PUSH (AC POWER)		15	4-095-031-01	DOOR	
3	*4-095-033-01	F BRACKET		16	4-205-743-11	SPRING, TORSION	
4	*4-095-037-01	SPRING BUTTON POWER		17	4-047-464-01	CATCHER, PUSH	
5	*4-095-026-01	BUTTON, POWER		18	4-205-682-01	DAMPER	
6	1-825-177-11	LOUDSPEAKER (4.2X24CM)		19	*A-1405-704-A	G BOARD, COMPLETE	(KV-32HQ100B/E/K)
7	7-685-663-71	SCREW, + BVTP 4X16 TYPE2 IT-3			*A-1405-703-A	G BOARD, COMPLETE	(KV-36HQ100B/E/K)
8	1-542-437-11	SPEAKER (2CM)		20	4-206-383-11	BRACKET, G1	
9	7-685-661-14	SCREW, + BVTP 4X12 TYPE2 IT-3		21	*A-1405-505-A	G1 BOARD, COMPLETE	
10	*4-206-106-26	BRACKET, MAIN		22	*A-1405-503-A	J4 BOARD, COMPLETE	
11	*4-202-531-01	AC CORD LOCK (SC)		23	*A-1405-504-A	N BOARD, COMPLETE	
12 ⚠	1-823-853-11	CORD, POWER					

CONTINUED....

REF.NO.	PART.NO	DESCRIPTION	REMARK
24	*A-1405-539-A	D1 BOARD, COMPLETE	(KV-32HQ100B/E/K)
	*A-1405-507-A	D1 BOARD, COMPLETE	(KV-36HQ100B/E/K)
25	*4-087-469-02	BRACKET, D2	
26	*A-1405-540-A	D2 BOARD, COMPLETE	(KV-32HQ100B/E/K)
	*A-1405-509-A	D2 BOARD, COMPLETE	(KV-36HQ100B/E/K)
27 △	1-453-444-21	TRANSFORMER ASSY, FLYBACK(NX-6020//Z2B4)	
28	4-095-048-01	COVER, REAR	(KV-32HQ100B/E/K)
	4-095-019-01	COVER, REAR	(KV-36HQ100B/E/K)
29	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3	
30	1-825-213-21	LOUDSPEAKER (10CM)	
31	4-058-870-01	SCREW, (4X16) W(+)P TAPPING	
32	*A-1410-377-A	SF BOARD, COMPLETE	(KV-32HQ100B/E/K)
	*A-1405-506-A	SF BOARD, COMPLETE	(KV-36HQ100B/E/K)

REF.NO.	PART.NO	DESCRIPTION	REMARK
33	*4-095-036-01	SF BRACKET	
34	*A-1410-666-A	SF2 BOARD, COMPLETE	
35	*A-1405-501-A	B BOARD, COMPLETE	
36	*A-1302-431-A	A BOARD, COMPLETE	(KV-32HQ100B)
	*A-1302-304-A	A BOARD, COMPLETE	(KV-32HQ100E/K)
	*A-1302-418-A	A BOARD, COMPLETE	(KV-36HQ100B)
	*A-1302-293-A	A BOARD, COMPLETE	(KV-36HQ100E/K)
37	8-598-536-20	FRONT END BTF-EF412	(KV-32/36HQ100B)
	8-598-534-10	FRONT END BTF-EC412	(KV-32/36HQ100E/K)
38	1-424-855-11	COIL, CHOKE 29MMH	
39	4-206-384-11	BRACKET, PFC	
40	*A-1405-513-A	MS3 BOARD, COMPLETE	
41	*4-095-032-01	MS BRACKET	

6-2. PICTURE TUBE



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4041-553-1	BEZNET ASSEMBLY 52-56	(KV-32HQ100B/E/K)
		X-4041-552-1	BEZNET ASSEMBLY 52-56	(KV-36HQ100B/E/K)
52		X-4041-879-1	FRONT LEG LEFT ASSY	(KV-32HQ100B/E/K)
		X-4041-874-1	FRONT LEG LEFT ASSY	(KV-36HQ100B/E/K)
53		*4-095-027-01	GUIDE LIGHT LEFT	
54		*4-095-028-01	GUIDE LIGHT RIGHT	
55		X-4041-879-1	FRONT LEG RIGHT ASSY	(KV-32HQ100B/E/K)
		X-4041-873-1	FRONT LEG RIGHT ASSY	(KV-36HQ100B/E/K)
56		4-204-865-01	SHEET, BLOTTING	(KV-32HQ100B/E/K)
		4-204-865-21	SHEET, BLOTTING	(KV-36HQ100B/E/K)
57		4-204-66-01	SHEET, BLOTTING	(KV-32HQ100B/E/K)
		4-203-128-21	SHEET, BLOTTING	(KV-36HQ100B/E/K)
58		*4-203-098-01	SUPPORTER, CRT	
59	⚠	8-735-079-05	CRT W76LLZ060X	(KV-32HQ100B/E/K)
	⚠	8-735-115-05	CRT W86LXX000X	(KV-36HQ100B/E/K)
60	⚠	1-451-520-31	DY (Y32RVC3)	(KV-32HQ100B/E/K)
	⚠	8-451-538-11	DY Y36DECP-M	(KV-36HQ100B/E/K)
61		1-452-896-11	COIL, NA ROTATION (RT200)	
62	⚠	8-453-022-21	NA2920-M2	(KV-32HQ100B/E/K)
	⚠	8-453-023-41	NA328M4	(KV-36HQ100B/E/K)
63		*A-1405-508-A	VM BOARD, COMPLETE	
64		*A-1405-502-A	C2 BOARD, COMPLETE	
65		4-369-318-21	SPRING, TENSION	(KV-32HQ100B/E/K)
		4-089-228-01	SPRING EXTENSION	(KV-36HQ100B/E/K)
66	⚠	1-424-888-11	COIL, DEGAUSSING	(KV-32HQ100B/E/K)
	⚠	1-456-482-11	DEGAUSSING COIL (WITH LCC)	(KV-36HQ100B/E/K)
67		4-098-510-11	DGC, CUSHION	(KV-32HQ100B/E/K)
		4-098-501-11	DGC, CUSHION	(KV-36HQ100B/E/K)
68		4-089-227-02	DGC CLIP	(KV-36HQ100B/E/K)
69		*4-204-768-02	HOLDER, DGC (29)"	(KV-32HQ100B/E/K)
		4-064-945-05	HOLDER, DGC	(KV-36HQ100B/E/K)
70		4-202-554-02	HOLDER, HV CABLE	
71	⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
72		3-704-495-03	SPACER, DY	(KV-32HQ100B/E/K)
		4-096-665-01	SPACER, DY	(KV-36HQ100B/E/K)
73		4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
74		4-308-870-00	CLIP, LEAD WIRE	
75		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
76		1-452-032-00	MAGNET, DISK; 10MM	
77		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
78		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

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A BOARD VARIANT Parts List : Parts that belong only to the model specified
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(KV-36HQ100) : 88
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C2 BOARD COMPLETE Parts List : 89
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SF BOARD COMMON Parts List : Parts common to all models in this manual 97
SF BOARD VARIANT Parts List : Parts that belong only to the model specified
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(KV-32HQ100) : 98
(KV-36HQ100) : 99
SF2 BOARD COMPLETE Parts List : 100
D1 BOARD COMMON Parts List : Parts common to all models in this manual 100
D1 BOARD VARIANT Parts List : Parts that belong only to the model specified
Model
(KV-32HQ100) : 102
(KV-36HQ100) : 103
D2 BOARD COMMON Parts List : Parts common to all models in this manual 103
D2 BOARD VARIANT Parts List : Parts that belong only to the model specified
Model
(KV-32HQ100) : 105
(KV-36HQ100) : 105
G BOARD COMMON Parts List : Parts common to all models in this manual 106
G BOARD VARIANT Parts List : Parts that belong only to the model specified
Model
(KV-32HQ100) : 108
(KV-36HQ100) : 108
VM BOARD COMPLETE Parts List : 108
F BOARD COMMON Parts List : Parts common to all models in this manual 109
F BOARD VARIANT Parts List : Parts that belong only to the model specified
Model
(KV-32HQ100) : 109
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MS3 BOARD COMPLETE Parts List : 110
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Note : The N Board and B Board Schematic Diagrams, Printed Wiring Boards and Parts List are not indicated in this manual as the PWB's are regarded as non service items for exchange only.

Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

*** A-1302-431-A A Board, Complete KV-32HQ100B**
*** A-1302-304-A A Board, Complete KV-32HQ100E**
*** A-1302-304-A A Board, Complete KV-32HQ100K**
*** A-1302-418-A A Board, Complete KV-36HQ100B**
*** A-1302-293-A A Board, Complete KV-36HQ100E**
*** A-1302-293-A A Board, Complete KV-36HQ100K**

A Board, Common Parts

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-202-373-01	SPRING, IC	
	4-206-065-01	SPACER INSULATING	
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C300	1-126-947-11	ELECT 47UF	20.00% 35V
C301	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C302	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C303	1-126-947-11	ELECT 47UF	20.00% 35V
C304	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C305	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C400	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C401	1-126-964-11	ELECT 10UF	20.00% 50V
C1006	1-126-960-11	ELECT 1UF	20.00% 50V
C1008	1-126-957-11	ELECT 0.22UF	20.00% 50V
C1012	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1101	1-126-934-11	ELECT 220UF	20.00% 16V
C1103	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1105	1-104-665-11	ELECT 100UF	20.00% 25V
C1106	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1107	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1108	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1109	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1200	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1201	1-126-934-11	ELECT 220UF	20.00% 16V
C1203	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1301	1-126-933-11	ELECT 100UF	20.00% 16V
C1302	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1418	1-126-916-11	ELECT 1000UF	20.00% 6.3V
C1602	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1603	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1604	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1606	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1607	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1609	1-126-964-11	ELECT 10UF	20.00% 50V
C2000	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2001	1-126-947-11	ELECT 47UF	20.00% 35V
C2002	1-164-346-11	CERAMIC CHIP 1UF	16V
C2003	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2004	1-164-346-11	CERAMIC CHIP 1UF	16V
C2005	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2006	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V
C2009	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V
C2011	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C2013	1-126-964-11	ELECT 10UF	20.00% 50V
C2014	1-126-964-11	ELECT 10UF	20.00% 50V
C2015	1-126-947-11	ELECT 47UF	20.00% 35V
C2016	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2017	1-126-947-11	ELECT 47UF	20.00% 35V
C2018	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2019	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2020	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2021	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2022	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2023	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2024	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2025	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C2026	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C2027	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2028	1-162-922-11	CERAMIC CHIP 39PF	5.00% 50V
C2029	1-104-665-11	ELECT 100UF	20.00% 25V
C2030	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2031	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2032	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2035	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2036	1-126-964-11	ELECT 10UF	20.00% 50V
C2037	1-126-947-11	ELECT 47UF	20.00% 35V
C2038	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2039	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2040	1-126-947-11	ELECT 47UF	20.00% 35V
C2041	1-126-947-11	ELECT 47UF	20.00% 35V
C2042	1-126-947-11	ELECT 47UF	20.00% 35V
C2043	1-126-947-11	ELECT 47UF	20.00% 35V
C2044	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2045	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2046	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2047	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C2048	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C2049	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2050	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2051	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2052	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2053	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C2200	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2201	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2202	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2203	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2204	1-126-965-91	ELECT 22UF	20.00% 50V
C2205	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2206	1-126-965-91	ELECT 22UF	20.00% 50V
C2207	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2208	1-126-952-11	ELECT 100UF	20.00% 35V
C2209	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C2210	1-126-952-11	ELECT 1000UF	20.00% 35V
C2211	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2212	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2300	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C2301	1-126-947-11	ELECT 47UF	20.00% 35V
C2302	1-136-175-00	FILM 0.68UF	5.00% 50V
C2303	1-126-943-11	ELECT 2200UF	20.00% 25V
C2304	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V
C2305	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2306	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2307	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2308	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2309	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2310	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2311	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2313	1-130-777-00	MYLAR 0.1UF	5.00% 100V
C2314	1-111-216-91	ELECT 150UF	20.00% 63V
C2315	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2316	1-126-961-11	ELECT 2.2UF	20.00% 50V
C2317	1-126-944-11	ELECT 3300UF	20.00% 25V
C2318	1-126-944-11	ELECT 3300UF	20.00% 25V
C2400	1-126-935-11	ELECT 470UF	20.00% 16V
C2450	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2451	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2453	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C2454	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C2455	1-126-965-91	ELECT 22UF	20% 50V
C4100	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4101	1-126-964-11	ELECT 10UF	20.00% 50V
C4115	1-107-826-91	CERAMIC CHIP 0.1UF	10% 16V
C4116	1-162-970-91	CERAMIC CHIP 0.1UF	10% 25V
C4119	1-107-826-91	CERAMIC CHIP 0.1UF	10% 16V
C4120	1-107-826-91	CERAMIC CHIP 0.1UF	10% 16V
C4121	1-162-970-91	CERAMIC CHIP 0.1UF	10% 25V
C4122	1-162-970-91	CERAMIC CHIP 0.1UF	10% 25V
C5000	1-126-964-11	ELECT 10UF	20.00% 50V
C5001	1-126-964-11	ELECT 10UF	20.00% 50V
C5002	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5003	1-126-964-11	ELECT 10UF	20.00% 50V
C5004	1-126-964-11	ELECT 10UF	20.00% 50V
C5005	1-126-964-11	ELECT 10UF	20.00% 50V
C5006	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5100	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5101	1-126-947-11	ELECT 47UF	20.00% 35V
C5102	1-136-497-81	FILM 0.1UF	5.00% 50V
C5103	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5104	1-126-947-11	ELECT 47UF	20.00% 35V
C5105	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5151	1-136-497-81	FILM 0.1UF	5.00% 50V
C5152	1-136-497-81	FILM 0.1UF	5.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C5153	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5154	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5300	1-126-947-11	ELECT 47UF	20.00% 35V
C5303	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C5304	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5305	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5307	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C5309	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5312	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5313	1-126-947-11	ELECT 47UF	20.00% 35V
C5315	1-126-947-11	ELECT 47UF	20.00% 35V
C5316	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5319	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5322	1-129-718-00	FILM 0.022UF	5% 630V
C5326	1-126-941-11	ELECT 470UF	20.00% 25V
C5327	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5328	1-104-665-11	ELECT 100UF	20.00% 25V
C5331	1-137-194-81	FILM 0.47UF	5.00% 50V
C5332	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5334	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5335	1-126-947-11	ELECT 47UF	20.00% 35V
C5400	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C5401	1-126-940-11	ELECT 330UF	20.00% 25V
C5402	1-102-228-00	CERAMIC 470PF	10.00% 500V
C5403	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C5404	1-129-702-00	MYLAR 0.001UF	10.00% 400V
C5405	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5406	1-126-968-11	ELECT 100UF	20.00% 50V
C5407	1-137-401-11	MYLAR 0.22UF	5.00% 100V
C5408	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C5409	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5410	1-126-968-11	ELECT 100UF	20.00% 50V
C5411	1-130-785-11	MYLAR 0.47UF	5.00% 100V
C5412	1-126-964-11	ELECT 10UF	20.00% 50V
C5413	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5600	1-126-947-11	ELECT 47UF	20.00% 35V
C5601	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C5602	1-126-941-11	ELECT 470UF	20.00% 25V
C5603	1-104-665-11	ELECT 100UF	20.00% 25V
C5604	1-104-665-11	ELECT 100UF	20.00% 25V
C5605	1-126-947-11	ELECT 47UF	20.00% 35V
C5800	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5802	1-126-964-11	ELECT 10UF	20.00% 50V
C5803	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5804	1-136-497-81	FILM 0.1UF	5.00% 50V
C5805	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C5806	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C5807	1-104-665-11	ELECT 100UF	20.00% 25V
C5808	1-126-933-11	ELECT 100UF	20.00% 16V
C5809	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V

REF.NO.	PART.NO	DESCRIPTION		REMARK	
C5810	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5811	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5814	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5815	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5816	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C5817	1-126-947-11	ELECT	47UF	20.00%	35V
C5819	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C6200	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6201	1-126-925-11	ELECT	470UF	20.00%	10V
C6202	1-126-925-11	ELECT	470UF	20.00%	10V
C6205	1-137-375-11	MYLAR	0.068UF	5.00%	50V
C6206	1-137-375-11	MYLAR	0.068UF	5.00%	50V
C6207	1-128-526-11	ELECT	100UF	20.00%	25V
C6209	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C6210	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C6211	1-107-869-11	ELECT	470UF	20.00%	6.3V
C6212	1-107-869-11	ELECT	470UF	20.00%	6.3V
C6213	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6214	1-126-964-11	ELECT	10UF	20.00%	50V
C6215	1-107-906-11	ELECT	10UF	20.00%	50V
C6216	1-104-665-11	ELECT	100UF	20.00%	25V
C6217	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6218	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6219	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6220	1-104-665-11	ELECT	100UF	20.00%	25V
C6221	1-128-526-11	ELECT	100UF	20.00%	25V
C6222	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6223	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6224	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C6225	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C6226	1-104-665-11	ELECT	100UF	20.00%	25V
C6228	1-126-947-11	ELECT	47UF	20.00%	35V
C6229	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6230	1-126-947-11	ELECT	47UF	20.00%	35V
C6231	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C6232	1-107-906-11	ELECT	10UF	20.00%	50V
C6233	1-128-526-11	ELECT	100UF	20.00%	25V
C6234	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6235	1-126-955-11	ELECT	470UF	20.00%	10V
C6237	1-137-375-11	MYLAR	0.068UF	5.00%	50V
C6238	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C6239	1-107-869-11	ELECT	470UF	20.00%	6.3V
C6240	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6241	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6242	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6243	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6244	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6245	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C6246	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C6247	1-162-974-11	CERAMIC CHIP	0.01UF		50V

REF.NO.	PART.NO	DESCRIPTION		REMARK	
C6248	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C7000	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7001	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7003	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7004	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7005	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7006	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C7007	1-126-947-11	ELECT	47UF	20.00%	35V
C7008	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C7010	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C7011	1-126-963-11	ELECT	4.7UF	20.00%	50V
C7012	1-104-665-11	ELECT	100UF	20.00%	25V
C7013	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C7014	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7015	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7016	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C7017	1-104-665-11	ELECT	100UF	20.00%	25V
C7018	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C7019	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C7020	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C7021	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C7022	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C7023	1-126-947-11	ELECT	47UF	20.00%	35V
C7024	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C7025	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C7026	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C7027	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8003	1-110-489-11	CAPACITOR	1F		5.5V
C8004	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C8005	1-164-160-11	CERAMIC CHIP	20PF	5.00%	50V

< CERAMIC TRAP >

REF.NO.	PART.NO	DESCRIPTION
CF2000	1-781-328-21	TRAP, CERAMIC

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION
CN1000	* 1-793-495-11	CONNECTOR, BOARD TO BOARD 50P
CN1001	* 1-793-495-11	CONNECTOR, BOARD TO BOARD 50P
CN1003	* 1-794-730-11	SOCKET, PC CONNECTOR (PC BOARD)
CN1011	* 1-564-510-11	PLUG, CONNECTOR 7P
CN1014	* 1-564-507-11	PLUG, CONNECTOR 4P
CN1016	* 1-564-514-11	PLUG, CONNECTOR 11P
CN1021	* 1-564-507-11	PLUG, CONNECTOR 4P
CN1022	* 1-564-507-11	PLUG, CONNECTOR 4P
CN1061	* 1-564-516-11	PLUG, CONNECTOR 13P
CN1062	* 1-564-508-11	PLUG, CONNECTOR 5P
CN1063	* 1-564-511-11	PLUG, CONNECTOR 8P
CN1064	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN1091	1-695-915-11	TAB (CONTACT)	
CN1092	1-695-915-11	TAB (CONTACT)	
CN1093	1-695-915-11	TAB (CONTACT)	
CN1094	1-695-915-11	TAB (CONTACT)	
CN1601	* 1-816-124-11	PIN, CONNECTOR (FOR PWB) 18P	
CN1999	* 1-564-520-11	PLUG, CONNECTOR 5P	
CN5001	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN5002	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN5003	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN5004	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P	
CN5005	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN5006	* 1-564-515-11	PLUG, CONNECTOR 12P	
CN5007	* 1-564-506-61	PLUG, CONNECTOR 3P	
CN5008	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN5009	* 1-691-772-11	PLUG (MICRO CONNECTOR) 10P	
CN5012	1-695-915-11	TAB (CONTACT)	
CN5013	* 1-564-506-11	PLUG, CONNECTOR 3P	

< SPLITTER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CP1301	1-251-658-11	SPLITTER RF	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D300	8-719-083-60	DIODE UDZSTE-174.7B	
D301	8-719-978-33	DIODE DTZ-TT11-6.8B	
D302	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D303	8-719-914-43	DIODE DAN202K	
D304	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D305	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D306	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D309	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D310	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
D400	8-719-914-43	DIODE DAN202K	
D401	8-719-914-43	DIODE DAN202K	
D1001	8-719-914-44	DIODE DAP202K	
D1002	8-719-069-55	DIODE UDZSTE-175.6B	
D1003	8-719-914-43	DIODE DAN202K	
D1004	8-719-069-55	DIODE UDZSTE-175.6B	
D1005	8-719-914-44	DIODE DAP202K	
D1008	8-719-069-55	DIODE UDZSTE-175.6B	
D1100	8-719-069-54	DIODE UDZSTE-175.1B	
D1607	8-719-914-42	DIODE DA204K	
D2000	8-719-083-82	DIODE UDZS-TE17-12B	
D2001	8-719-083-82	DIODE UDZS-TE17-12B	
D2002	8-719-083-82	DIODE UDZS-TE17-12B	
D2003	8-719-083-82	DIODE UDZS-TE17-12B	
D2004	8-719-110-09	DIODE RD8.2ESB3	
D2200	8-719-083-60	DIODE UDZSTE-174.7B	
D2201	8-719-988-61	DIODE 1SS355TE-17	
D2300	8-719-914-43	DIODE DAN202K	
D2301	8-719-914-44	DIODE DAP202K	
D2302	8-719-914-44	DIODE DAP202K	
D2303	8-719-914-43	DIODE DAN202K	
D2304	8-719-914-44	DIODE DAP202K	
D2305	8-719-988-61	DIODE 1SS355TE-17	
D2400	8-719-929-15	DIODE HZS9.1NB2	
D2403	8-719-929-15	DIODE HZS9.1NB2	
D4100	8-719-982-24	DIODE MTZJ-33A	
D5301	8-719-988-61	DIODE 1SS355TE-17	
D5303	8-719-987-87	DIODE ERA85-009	
D5304	8-719-991-33	DIODE 1SS133T-77	
D5305	8-719-052-90	DIODE D1NL40-TA2	
D5307	8-719-081-97	DIODE MMDL914T1	
D5308	8-719-081-97	DIODE MMDL914T1	
D5400	8-719-110-49	DIODE RD18ESB2	
D5401	8-719-908-03	DIODE GP08D	
D5402	8-719-110-41	DIODE RD15ESB2	
D5403	8-719-074-43	DIODE BAS316-115	
D5404	8-719-074-43	DIODE BAS316-115	
D5800	8-719-066-11	DIODE 1PS184-115	
D5801	8-719-069-60	DIODE UDZSTE-179.1B	
D6200	8-719-500-70	DIODE D5S4M	
D6201	8-719-500-70	DIODE D5S4M	
D6202	8-719-063-70	DIODE D1NL20U	
D6203	8-719-069-55	DIODE UDZSTE-175.6B	
D6204	8-719-063-70	DIODE D1NL20U	
D6206	8-719-500-70	DIODE D5S4M	
D6215	8-719-982-24	DIODE MTZJ-33A	
D7000	8-719-066-11	DIODE 1PS184-115	
D7001	8-719-066-11	DIODE 1PS184-115	
D7002	8-719-083-60	DIODE UDZSTE-174.7B	
D7010	8-719-988-61	DIODE 1SS355TE-17	
D7015	8-719-988-62	DIODE 1SS355TE-18	
D8001	8-719-914-43	DIODE DAN202K	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB1001	1-414-766-22	FERRITE 0UH	
FB1002	1-414-766-22	FERRITE 0UH	
FB1003	1-414-766-22	FERRITE 0UH	
FB1004	1-414-766-22	FERRITE 0UH	
FB1005	1-414-766-22	FERRITE 0UH	
FB1006	1-414-766-22	FERRITE 0UH	
FB1100	1-414-766-22	FERRITE 0UH	
FB1101	1-414-766-22	FERRITE 0UH	
FB1200	1-414-766-22	FERRITE 0UH	
FB1201	1-414-766-22	FERRITE 0UH	
FB1610	1-414-234-22	FERRITE 0UH	
FB1611	1-414-234-22	FERRITE 0UH	
FB1612	1-414-234-22	FERRITE 0UH	
FB1613	1-414-234-22	FERRITE 0UH	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB1614	1-216-295-91	SHORT CHIP 0	
FB2300	1-410-397-21	FERRITE 1.1UH	
FB2301	1-410-397-21	FERRITE 1.1UH	
FB5800	1-414-766-22	FERRITE 0UH	
FB7000	1-216-295-91	SHORT CHIP 0	
FB7001	1-216-295-91	SHORT CHIP 0	
FB7002	1-216-295-91	SHORT CHIP 0	

< FILTER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FL1001	1-233-736-21	FILTER, EMI	
FL1002	1-233-736-21	FILTER, EMI	
FL1003	1-233-736-21	FILTER, EMI	
FL1401	1-233-736-21	FILTER, EMI	
FL1402	1-233-736-21	FILTER, EMI	
FL1403	1-233-736-21	FILTER, EMI	
FL1404	1-233-736-21	FILTER, EMI	
FL1600	1-233-736-21	FILTER, EMI	
FL2000	1-236-071-11	ENCAPSULATED COMPONENT	
FL2001	1-236-071-11	ENCAPSULATED COMPONENT	
FL2002	1-233-764-21	FILTER	
FL6200	1-233-736-21	FILTER, EMI	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC300	8-752-412-99	IC CXD2088Q-T4	
IC400	8-752-072-94	IC CXA1875AM-T4	
IC1600	8-759-560-33	IC DS90LV031ATMX	
IC1601	6-701-762-11	IC DS90LV018ATMX	
IC1602	8-759-698-08	IC SN74CBTLV1G125DCKR	
IC2000	6-701-031-11	IC MSP3411G-QA-B11	
IC2001	8-759-701-36	IC NJM3403AM	
IC2003	8-759-100-96	IC UPC4558G2	
IC2200	8-759-333-24	IC LM1876TF	
IC2300	8-759-544-25	IC TDA7482	
IC5000	8-759-567-08	IC MB88141APF-ER	
IC5001	8-759-701-01	IC NJM2904M	
IC5100	8-759-822-38	IC LA6510	
IC5300	6-701-598-01	IC UPC5023CS-184	
IC5302	8-759-803-42	IC LA6500-FA	
IC5400	8-759-696-71	IC STV9379A	
IC5600	8-759-394-35	IC BA12T	
IC5601	8-759-929-65	IC LM7912CT	
IC6203	8-759-445-59	IC BA033T	
IC6205	8-759-450-47	IC BA05T	
IC6211	8-759-640-19	IC PQ1CG2032FZ	
IC6212	8-759-640-19	IC PQ1CG2032FZ	
IC6213	8-759-640-19	IC PQ1CG2032FZ	
IC6215	8-759-450-47	IC BA05T	
IC6216	8-759-574-78	IC KA278R05-YDTU	
IC6225	8-759-450-47	IC BA05T	
IC6229	8-759-648-19	IC L7809CV/LSY	

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC7000	8-752-102-68	IC CXA2170Q	
IC8001	8-759-478-44	IC PCF8593/T118	

< SOCKET >

REF.NO.	PART.NO	DESCRIPTION	REMARK
J2451	1-784-632-11	JACK, PIN 2P	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L1100	1-414-934-21	INDUCTOR 10UH	
L1101	1-412-979-21	INDUCTOR 1UH	
L1102	1-412-979-21	INDUCTOR 1UH	
L1200	1-414-934-21	INDUCTOR 10UH	
L1201	1-412-979-21	INDUCTOR 1UH	
L1202	1-412-979-21	INDUCTOR 1UH	
L1301	1-414-856-11	INDUCTOR 10UH	
L1600	1-419-370-21	INDUCTOR 0UH	
L1601	1-419-370-21	INDUCTOR 0UH	
L1602	1-419-370-21	INDUCTOR 0UH	
L1603	1-419-370-21	INDUCTOR 0UH	
L1604	1-419-370-21	INDUCTOR 0UH	
L2000	1-414-934-21	INDUCTOR 10UH	
L2001	1-412-006-31	INDUCTOR 10UH	
L2003	1-414-189-31	INDUCTOR 100UH	
L2300	1-416-857-11	INDUCTOR 65UH	
L2301	1-414-158-11	INDUCTOR 2.2UH	
L2302	1-414-158-11	INDUCTOR 2.2UH	
L4100	1-414-934-21	INDUCTOR 10UH	
L5400	1-412-524-11	INDUCTOR 8.2UH	
L5600	1-414-934-21	INDUCTOR 10UH	
L5800	1-414-934-21	INDUCTOR 10UH	
L5802	1-414-934-21	INDUCTOR 10UH	
L6200	1-419-249-11	INDUCTOR 15UH	
L6201	1-412-525-31	INDUCTOR 10UH	
L6202	1-412-525-31	INDUCTOR 10UH	
L6203	1-419-249-11	INDUCTOR 15UH	
L6204	1-419-249-11	INDUCTOR 15UH	
L6205	1-419-249-11	INDUCTOR 15UH	
L6206	1-412-525-31	INDUCTOR 10UH	
L6207	1-419-249-11	INDUCTOR 15UH	
L6208	1-419-249-11	INDUCTOR 15UH	
L6209	1-412-525-31	INDUCTOR 10UH	
L7000	1-414-934-21	INDUCTOR 10UH	
L7001	1-414-934-21	INDUCTOR 10UH	
L7002	1-414-934-21	INDUCTOR 10UH	
L7003	1-414-934-21	INDUCTOR 10UH	

< PROTECTOR MODULE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
PS1001 ⚠	1-801-549-21	IC LINK 4A MP250	
PS1002 ⚠	1-801-549-21	IC LINK 4A MP250	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< TRANSISTOR >	
Q300	8-729-010-29	TRANSISTOR MSD601-RST1	
Q400	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1000	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1003	1-801-806-11	TRANSISTOR DTC144EKA	
Q1004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1006	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1100	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1104	1-801-806-11	TRANSISTOR DTC144EKA	
Q1200	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2003	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2200	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2300	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2400	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2402	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q2406	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2407	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2409	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2410	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5301	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5304	8-729-140-93	TRANSISTOR 2SB733-34	
Q5305	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q5308	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5309	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5310	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5311	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5400	8-729-039-68	TRANSISTOR IRF620	
Q5800	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5801	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5802	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5804	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5805	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7000	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7001	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7002	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7004	8-729-421-19	TRANSISTOR UN2213	
Q7005	8-729-010-05	TRANSISTOR MSB709-RT1	
		< RESISTOR >	
R301	1-216-864-11	SHORT CHIP 0	
R302	1-216-809-11	METAL CHIP 100 5% 1/10W	
R303	1-216-809-11	METAL CHIP 100 5% 1/10W	
R304	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R305	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R307	1-216-809-11	METAL CHIP 100 5% 1/10W	
R308	1-216-813-11	METAL CHIP 220 5% 1/10W	
R309	1-216-864-11	SHORT CHIP 0	
R310	1-216-809-11	METAL CHIP 100 5% 1/10W	
R311	1-216-838-11	METAL CHIP 27K 5% 1/10W	
R312	1-216-809-11	METAL CHIP 100 5% 1/10W	
R313	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R314	1-216-809-11	METAL CHIP 100 5% 1/10W	
R315	1-216-809-11	METAL CHIP 100 5% 1/10W	
R316	1-216-817-11	METAL CHIP 470 5% 1/10W	
R317	1-216-809-11	METAL CHIP 100 5% 1/10W	
R319	1-216-809-11	METAL CHIP 100 5% 1/10W	
R320	1-216-809-11	METAL CHIP 100 5% 1/10W	
R321	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R322	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R323	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R324	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R325	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R326	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R328	1-216-809-11	METAL CHIP 100 5% 1/10W	
R400	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R401	1-216-809-11	METAL CHIP 100 5% 1/10W	
R402	1-216-809-11	METAL CHIP 100 5% 1/10W	
R403	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R404	1-216-809-11	METAL CHIP 100 5% 1/10W	
R405	1-216-809-11	METAL CHIP 100 5% 1/10W	
R406	1-216-809-11	METAL CHIP 100 5% 1/10W	
R407	1-216-809-11	METAL CHIP 100 5% 1/10W	
R408	1-216-864-11	SHORT CHIP 0	
R409	1-216-809-11	METAL CHIP 100 5% 1/10W	
R410	1-216-809-11	METAL CHIP 100 5% 1/10W	
R411	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R413	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R414	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1010	1-216-864-11	SHORT CHIP 0	
R1011	1-216-864-11	SHORT CHIP 0	
R1012	1-216-864-11	SHORT CHIP 0	
R1018	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1019	1-216-864-11	SHORT CHIP 0	
R1020	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1021	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1026	1-216-864-11	SHORT CHIP	0		
R1029	1-216-864-11	SHORT CHIP	0		
R1030	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1031	1-216-295-91	SHORT CHIP	0		
R1032	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1033	1-216-295-91	SHORT CHIP	0		
R1035	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1036	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1037	1-216-864-11	SHORT CHIP	0		
R1038	1-216-864-11	SHORT CHIP	0		
R1040	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1041	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1044	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1045	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1046	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1047	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1049	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1103	1-216-809-11	METAL CHIP	100	5%	1/10W
R1105	1-216-817-11	METAL CHIP	470	5%	1/10W
R1106	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1107	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1108	1-216-809-11	METAL CHIP	100	5%	1/10W
R1109	1-216-817-11	METAL CHIP	470	5%	1/10W
R1110	1-216-817-11	METAL CHIP	470	5%	1/10W
R1111	1-216-797-11	METAL CHIP	10	5%	1/10W
R1112	1-216-817-11	METAL CHIP	470	5%	1/10W
R1113	1-216-818-11	METAL CHIP	560	5%	1/10W
R1117	1-216-839-91	RES CHIP	33K	5%	1/10W
R1118	1-216-817-11	METAL CHIP	470	5%	1/10W
R1119	1-216-839-91	RES CHIP	33K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1121	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1122	1-216-864-11	SHORT CHIP	0		
R1123	1-216-817-11	METAL CHIP	470	5%	1/10W
R1124	1-216-864-11	SHORT CHIP	0		
R1127	1-216-864-11	SHORT CHIP	0		
R1129	1-216-864-11	SHORT CHIP	0		
R1200	1-216-864-11	SHORT CHIP	0		
R1201	1-216-864-11	SHORT CHIP	0		
R1202	1-216-864-11	SHORT CHIP	0		
R1203	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1211	1-216-864-11	SHORT CHIP	0		
R1213	1-216-864-11	SHORT CHIP	0		
R1304	1-216-864-11	SHORT CHIP	0		
R1422	1-216-864-11	SHORT CHIP	0		
R1423	1-216-864-11	SHORT CHIP	0		
R1424	1-216-864-11	SHORT CHIP	0		
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-864-11	SHORT CHIP	0		
R1427	1-216-864-11	SHORT CHIP	0		
R1428	1-216-864-11	SHORT CHIP	0		
R1476	1-216-864-11	SHORT CHIP	0		
R1477	1-216-864-11	SHORT CHIP	0		
R1603	1-216-864-11	SHORT CHIP	0		
R1604	1-216-864-11	SHORT CHIP	0		
R1605	1-216-864-11	SHORT CHIP	0		
R1606	1-216-864-11	SHORT CHIP	0		
R1607	1-216-809-11	METAL CHIP	100	5%	1/10W
R1608	1-216-864-11	SHORT CHIP	0		
R2000	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2004	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2005	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2006	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2007	1-249-401-11	CARBON	47	5%	1/4W
R2011	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2012	1-216-809-11	METAL CHIP	100	5%	1/10W
R2013	1-216-809-11	METAL CHIP	100	5%	1/10W
R2014	1-216-815-11	METAL CHIP	330	5%	1/10W
R2016	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2017	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R2018	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R2019	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2020	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2021	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2022	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2023	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2024	1-216-847-11	METAL CHIP	150K	5%	1/10W
R2025	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2027	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2028	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2030	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2031	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2032	1-216-818-11	METAL CHIP	560	5%	1/10W
R2033	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R2034	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2037	1-216-295-91	SHORT CHIP	0		
R2041	1-216-295-91	SHORT CHIP	0		
R2043	1-216-295-91	SHORT CHIP	0		
R2051	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2052	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2056	1-216-809-11	METAL CHIP	100	5%	1/10W
R2057	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2058	1-216-845-91	RES CHIP	100K	5%	1/10W
R2059	1-216-833-91	RES CHIP	10K	5%	1/10W
R2060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2061	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

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REF.NO.	PART.NO	DESCRIPTION			REMARK
R2062	1-216-845-91	RES CHIP	100K	5%	1/10W
R2063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2064	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2065	1-216-864-11	SHORT CHIP	0		
R2066	1-216-864-11	SHORT CHIP	0		
R2069	1-216-864-11	SHORT CHIP	0		
R2070	1-216-864-11	SHORT CHIP	0		
R2071	1-216-864-11	SHORT CHIP	0		
R2072	1-216-864-11	SHORT CHIP	0		
R2073	1-216-864-11	SHORT CHIP	0		
R2200	1-249-422-11	CARBON	2.7K	5%	1/4W
R2201	1-249-422-11	CARBON	2.7K	5%	1/4W
R2203	1-243-826-21	METAL OXIDE	4.7	5%	1W
R2204	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2205	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2206	1-243-826-21	METAL OXIDE	4.7	5%	1W
R2207	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2208	1-216-819-11	METAL CHIP	680	5%	1/10W
R2209	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2210	1-216-819-11	METAL CHIP	680	5%	1/10W
R2211	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2212	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2214	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2215	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2216	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2300	1-216-817-11	METAL CHIP	470	5%	1/10W
R2301	1-249-422-11	CARBON	2.7K	5%	1/4W
R2302	1-216-809-11	METAL CHIP	100	5%	1/10W
R2303	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2305	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2306	1-216-864-11	SHORT CHIP	0		
R2307	1-216-811-11	METAL CHIP	150	5%	1/10W
R2308	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2309	1-216-864-11	SHORT CHIP	0		
R2310	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2311	1-216-838-11	METAL CHIP	27K	5%	1/10W
R2312	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2314	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2403	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2404	1-216-295-91	SHORT CHIP	0		
R2405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2450	1-216-825-11	METAL CHIP	1K	5%	1/10W
R2451	1-216-864-11	SHORT CHIP	0		
R2452	1-216-864-11	SHORT CHIP	0		
R2453	1-216-821-11	METAL CHIP	1K	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R2454	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2455	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2457	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2460	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2461	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2463	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4113	1-216-813-11	METAL CHIP	220	5%	1/10W
R5002	1-216-871-91	METAL CHIP	10K	5%	1/10W
R5006	1-215-439-00	METAL	5.6K	1%	1/4W
R5008	1-216-809-11	METAL CHIP	100	5%	1/10W
R5010	1-216-809-11	METAL CHIP	100	5%	1/10W
R5011	1-216-809-11	METAL CHIP	100	5%	1/10W
R5013	1-216-809-11	METAL CHIP	100	5%	1/10W
R5016	1-218-914-91	RES CHIP	620K	0.5%	1/10W
R5017	1-216-809-11	METAL CHIP	100	5%	1/10W
R5018	1-216-809-11	METAL CHIP	100	5%	1/10W
R5019	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5100	1-218-888-11	METAL CHIP	51K	0.5%	1/10W
R5101	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R5102	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R5103	1-216-818-11	METAL CHIP	560	5%	1/10W
R5104	1-249-381-11	CARBON	1	5%	1/4W
R5105	1-249-383-11	CARBON	1.5	5%	1/4W
R5106	1-243-572-71	METAL OXIDE	470	5%	2W
R5107	1-249-395-11	CARBON	15	5%	1/4W
R5151	1-243-693-71	METAL OXIDE	270	5%	1W
R5152	1-249-381-11	CARBON	1	5%	1/4W
R5153	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R5154	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5156	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R5157	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5307	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5308	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5313	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5314	1-216-809-11	METAL CHIP	100	5%	1/10W
R5320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5324	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5325	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R5326	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5328	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5329	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5330	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R5331	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R5333	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5334	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R5336	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
R5338	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R5340	1-218-891-11	METAL CHIP	68K	0.5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R5344	1-249-395-11	CARBON	15	5%	1/4W
R5349	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R5353	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5354	1-216-864-11	SHORT CHIP	0		
R5358	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5359	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5360	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R5361	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5364	1-260-296-11	CARBON	2.2	5%	1/2W
R5365	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5367	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5368	1-216-809-11	METAL CHIP	100	5%	1/10W
R5369	1-216-809-11	METAL CHIP	100	5%	1/10W
R5370	1-216-805-11	METAL CHIP	47	5%	1/10W
R5400	1-218-864-91	RES CHIP	5.1K	0.5%	1/10W
R5401	1-218-859-91	RES CHIP	3.3K	0.5%	1/10W
R5402	1-218-864-91	RES CHIP	5.1K	0.5%	1/10W
R5403	1-218-859-91	RES CHIP	3.3K	0.5%	1/10W
R5404	1-249-383-11	CARBON	1.5	5%	1/4W
R5405	1-249-389-11	CARBON	4.7	5%	1/4W
R5406	1-247-791-91	CARBON	22	5%	1/4W
R5407	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5408	1-243-535-71	METAL OXIDE	220	5%	3W
R5409	1-214-798-21	METAL	1.8	1%	1/2W
R5410	1-214-798-21	METAL	1.8	1%	1/2W
R5802	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5803	1-216-809-11	METAL CHIP	100	5%	1/10W
R5804	1-216-815-11	METAL CHIP	330	5%	1/10W
R5805	1-216-817-11	METAL CHIP	470	5%	1/10W
R5806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5808	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5809	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5810	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5812	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5813	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R5814	1-216-809-11	METAL CHIP	100	5%	1/10W
R5815	1-216-809-11	METAL CHIP	100	5%	1/10W
R5816	1-216-864-11	SHORT CHIP	0		
R5817	1-216-864-11	SHORT CHIP	0		
R5819	1-216-818-11	METAL CHIP	560	5%	1/10W
R5820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5822	1-216-809-11	METAL CHIP	100	5%	1/10W
R5823	1-216-809-11	METAL CHIP	100	5%	1/10W
R5830	1-216-864-11	SHORT CHIP	0		
R5831	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5832	1-218-271-11	METAL CHIP	2K	5%	1/10W
R5833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5834	1-216-809-11	METAL CHIP	100	5%	1/10W
R5835	1-216-809-11	METAL CHIP	100	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R5836	1-216-809-11	METAL CHIP	100	5%	1/10W
R5837	1-216-809-11	METAL CHIP	100	5%	1/10W
R5838	1-216-809-11	METAL CHIP	100	5%	1/10W
R6200	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6202	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R6203	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R6204	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R6205	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R6206	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R6210	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6212	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R6213	1-211-991-11	METAL CHIP	82	0.5%	1/10W
R7000	1-216-809-11	METAL CHIP	100	5%	1/10W
R7001	1-216-809-11	METAL CHIP	100	5%	1/10W
R7002	1-216-809-11	METAL CHIP	100	5%	1/10W
R7003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7004	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7006	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7008	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7009	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7010	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R7011	1-216-805-11	METAL CHIP	47	5%	1/10W
R7012	1-216-805-11	METAL CHIP	47	5%	1/10W
R7013	1-216-805-11	METAL CHIP	47	5%	1/10W
R7014	1-216-809-11	METAL CHIP	100	5%	1/10W
R7015	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R7016	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7017	1-216-809-11	METAL CHIP	100	5%	1/10W
R7018	1-216-834-11	METAL CHIP	12K	5%	1/10W
R7019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7021	1-216-809-11	METAL CHIP	100	5%	1/10W
R7022	1-216-809-11	METAL CHIP	100	5%	1/10W
R7024	1-216-809-11	METAL CHIP	100	5%	1/10W
R7025	1-216-809-11	METAL CHIP	100	5%	1/10W
R7027	1-216-809-11	METAL CHIP	100	5%	1/10W
R7028	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R7029	1-216-835-11	METAL CHIP	15K	5%	1/10W
R7030	1-216-817-11	METAL CHIP	470	5%	1/10W
R7032	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7034	1-216-864-11	SHORT CHIP	0		
R7042	1-216-809-11	METAL CHIP	100	5%	1/10W
R7057	1-216-864-11	SHORT CHIP	0		
R7060	1-216-864-11	SHORT CHIP	0		
R7061	1-216-864-11	SHORT CHIP	0		
R8001	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8008	1-216-864-11	SHORT CHIP	0		
R8009	1-216-864-11	SHORT CHIP	0		

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8011	1-216-864-11	SHORT CHIP 0	

< THERMISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TH5400	1-800-193-00	THERMISTOR	

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X300	1-579-126-11	VIBRATOR, CERAMIC	
X2000	1-781-148-21	VIBRATOR, CRYSTAL	
X7000	1-760-895-21	VIBRATOR, CERAMIC	
X8001	1-760-105-11	VIBRATOR, CRYSTAL	

A Board Variants KV-32HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1009	NOT FITTED		
C1010	NOT FITTED		
C1011	NOT FITTED		
C1013	NOT FITTED		
C5320	1-100-143-21	FILM 0.0047UF	5% 630V
C5322	NOT FITTED		
C7030	NOT FITTED		

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN1017	NOT FITTED		
CN1018	NOT FITTED		
CN1019	NOT FITTED		
CN5010	NOT FITTED		

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D1009	NOT FITTED		
D1010	NOT FITTED		
D1011	NOT FITTED		
D7012	NOT FITTED		

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L5300	1-406-989-21	INDUCTOR 10MH	
L5301	1-406-989-21	INDUCTOR 10MH	
L5302	NOT FITTED		

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q7006	NOT FITTED		
Q7007	NOT FITTED		
Q7008	NOT FITTED		
Q7009	NOT FITTED		
Q7010	NOT FITTED		

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R1050	NOT FITTED		
R1051	NOT FITTED		
R1052	NOT FITTED		
R1053	NOT FITTED		
R1054	1-216-864-11	SHORT CHIP 0	
R1056	NOT FITTED		
R5000	1-218-887-11	METAL CHIP 47K	0.5% 1/10W
R5001	1-216-841-11	METAL CHIP 47K	5% 1/10W
R5003	1-218-887-11	METAL CHIP 47K	0.5% 1/10W
R5004	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R5005	1-218-819-11	METAL CHIP 22K	0.5% 1/10W
R5007	NOT FITTED		
R5009	NOT FITTED		
R5012	NOT FITTED		
R5014	NOT FITTED		
R5015	1-218-883-11	METAL CHIP 33K	0.5% 1/10W
R5310	1-218-887-11	METAL CHIP 47K	0.5% 1/10W
R5311	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R5350	1-218-866-11	METAL CHIP 6.2K	0.5% 1/10W
R5371	1-216-295-91	SHORT CHIP 0	
R5372	1-216-295-91	SHORT CHIP 0	
R5411	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R5413	1-216-833-11	METAL CHIP 10K	5% 1/10W
R5414	1-216-845-11	METAL CHIP 100K	5% 1/10W
R5415	1-216-841-11	METAL CHIP 47K	5% 1/10W
R5821	1-216-830-11	METAL CHIP 5.6K	5% 1/10W
R7043	NOT FITTED		
R7044	NOT FITTED		
R7045	NOT FITTED		
R7046	NOT FITTED		
R7047	NOT FITTED		
R7048	NOT FITTED		
R7049	NOT FITTED		
R7050	NOT FITTED		
R7052	NOT FITTED		
R7053	NOT FITTED		
R7054	NOT FITTED		
R7055	NOT FITTED		
R7058	NOT FITTED		
R7059	NOT FITTED		
R7062	NOT FITTED		
R7063	NOT FITTED		
R7065	NOT FITTED		

< THERMISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TH5000	NOT FITTED		

A Board Variants KV-36HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1009	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1010	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1011	1-126-947-11	ELECT 47UF	20.00% 35V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1013	1-107-826-91	CERAMIC CHIP 0.1UF	10.00% 16V
C5320	1-100-145-21	FILM 0.01UF	5% 630V
C5322	1-136-314-91	FILM 0.022UF	5% 630V
C7030	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
		< CONNECTOR >	
CN1017	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1018	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1019	1-784-009-11	CONNECTOR, USB (A)	
CN5010	1-564-506-71	PLUG, CONNECTOR 3P	
		< DIODE >	
D1009	8-719-914-43	DIODE DAN202K	
D1010	8-719-914-44	DIODE DAP202K	
D1011	8-719-069-55	DIODE UDZSTE-175.6B	
D7012	8-719-988-61	DIODE 1SS355TE-17	
		< COIL >	
L5300	1-406-988-21	INDUCTOR 6.8MH	
L5301	1-406-987-21	INDUCTOR 4.7MH	
L5302	1-406-674-11	INDUCTOR 3.3MH	
		< TRANSISTOR >	
Q7006	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7007	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7008	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7009	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7010	8-729-010-29	TRANSISTOR MSD601-RST1	
		< RESISTOR >	
R1050	1-216-835-11	METAL CHIP 15K	5% 1/10W
R1051	1-216-835-11	METAL CHIP 15K	5% 1/10W
R1052	1-216-803-11	METAL CHIP 33	5% 1/10W
R1053	1-216-803-11	METAL CHIP 33	5% 1/10W
R1054	NOT FITTED		
R1056	1-216-864-11	SHORT CHIP 0	
R5000	1-218-891-11	METAL CHIP 68K	0.5% 1/10W
R5001	1-216-843-11	METAL CHIP 68K	5% 1/10W
R5003	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R5004	1-218-869-11	METAL CHIP 8.2K	0.5% 1/10W
R5005	1-216-835-11	METAL CHIP 15K	5% 1/10
R5007	1-218-913-91	METAL CHIP 560K	0.5% 1/10W
R5009	1-218-903-11	METAL CHIP 220K	0.5% 1/10W
R5012	1-216-809-11	METAL CHIP 100	5% 1/10W
R5014	1-216-809-11	METAL CHIP 100	5% 1/10W
R5015	1-216-845-11	METAL CHIP 100	5% 1/10W
R5310	1-218-891-11	METAL CHIP 68K	0.5% 1/10W
R5311	1-218-875-11	METAL CHIP 15K	0.5% 1/10W
R5350	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
R5371	NOT FITTED		

REF.NO.	PART.NO	DESCRIPTION	REMARK
R5372	NOT FITTED		
R5411	1-216-826-11	METAL CHIP 2.7K	5% 1/10W
R5413	1-216-832-11	METAL CHIP 8.2K	5% 1/10W
R5414	1-216-843-11	METAL CHIP 68K	5% 1/10W
R5415	1-216-838-11	METAL CHIP 27K	5% 1/10W
R5821	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7043	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7044	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7045	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7046	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7047	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7048	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7049	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R7050	1-218-863-11	METAL CHIP 4.7K	0.5% 1/10W
R7052	1-218-863-11	METAL CHIP 4.7K	0.5% 1/10W
R7053	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7054	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7055	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R7058	1-218-855-11	RES CHIP 2.2K	0.5% 1/10W
R7059	1-218-847-91	RES CHIP 1K	0.5% 1/10W
R7062	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7063	1-216-817-11	METAL CHIP 470	5% 1/10W
R7065	1-216-845-11	METAL CHIP 100K	5% 1/10W
		< THERMISTOR >	
TH5000	1-778-293-11	THERMISTOR	

A Board Variants 32/36HQ100B

		< TUNER >	
TU1100	8-598-536-20	FRONTEND BTF-EF412	
TU1200	8-598-536-20	FRONTEND BTF-EF412	

A Board Variants 32/36HQ100E & 32/36HQ100K

		< TUNER >	
TU1100	8-598-534-20	FRONTEND BTF-EC412	
TU1200	8-598-534-20	FRONTEND BTF-EC412	

* A-1405-502-A C2 Board, Complete

	4-382-854-11	SCREW (M3X10), P, SW (+)	
		< CAPACITOR >	
C7301	1-128-527-11	ELECT 330UF	20.00% 25V
C7302	1-104-653-11	ELECT 220UF	20.00% 16V
C7303	1-162-920-11	CERAMIC CHIP 27PF	5.00% 50V
C7304	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7305	1-104-653-11	ELECT 220UF	20.00% 16V
C7306	1-162-920-11	CERAMIC CHIP 27PF	5.00% 50V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
C7307	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7308	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C7309	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7310	1-107-961-91	ELECT 10UF	20.00% 250V
C7311	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7312	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C7313	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7314	1-107-961-91	ELECT 10UF	20.00% 250V
C7315	1-161-830-00	CERAMIC 0.0047UF	500V
C7316	1-162-920-11	CERAMIC CHIP 27PF	5.00% 50V
C7317	1-161-830-00	CERAMIC 0.0047UF	500V
C7318	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C7319	1-107-961-91	ELECT 10UF	20.00% 250V
C7320	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7321	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7323	1-161-830-00	CERAMIC 0.0047UF	500V
C7326	1-115-350-51	CERAMIC 0.0047UF	2KV
C7327	1-107-662-11	ELECT 22UF	20.00% 350V
C7328	1-115-350-51	CERAMIC 0.0047UF	2KV
C7329	1-162-116-00	CERAMIC 680PF	10.00% 2KV
C7330	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C7331	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C7332	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN7301	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN7302	⚠ 1-451-544-11	SOCKET, CRT	
CN7304	1-695-915-11	TAB (CONTACT)	
CN7305	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN7307	1-695-915-11	TAB (CONTACT)	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D7304	8-719-988-61	DIODE 1SS355TE-17	
D7307	8-719-051-85	DIODE HSS83TD	
D7308	8-719-051-85	DIODE HSS83TD	
D7310	8-719-051-85	DIODE HSS83TD	
D7311	8-719-110-17	DIODE RD10ESB2	
D7312	8-719-908-03	DIODE GP08D	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC7301	8-759-680-01	IC TDA6120Q/N2/S1	
IC7302	8-759-680-01	IC TDA6120Q/N2/S1	
IC7303	8-759-680-01	IC TDA6120Q/N2/S1	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L7301	1-408-592-11	INDUCTOR 1.2UH	
L7302	1-408-399-00	INDUCTOR 1.5UH	
L7303	1-408-592-11	INDUCTOR 1.2UH	
L7304	1-406-666-21	INDUCTOR 150UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q7301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7304	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7305	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q7306	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q7307	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
JR7327	1-216-295-91	SHORT CHIP 0	
R7302	1-216-025-11	RES-CHIP 100	5% 1/10W
R7303	1-216-025-11	RES-CHIP 100	5% 1/10W
R7304	1-216-025-11	RES-CHIP 100	5% 1/10W
R7305	1-216-821-11	METAL CHIP 1K	5% 1/10W
R7308	1-216-821-11	METAL CHIP 1K	5% 1/10W
R7309	1-216-821-11	METAL CHIP 1K	5% 1/10W
R7310	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7311	1-216-812-11	METAL CHIP 180	5% 1/10W
R7312	1-215-428-00	METAL 2K	1% 1/4W
R7313	1-218-851-11	METAL CHIP 1.5K	0.5% 1/10W
R7314	1-216-864-11	SHORT CHIP 0	
R7315	1-215-435-00	METAL 3.9K	1% 1/4W
R7316	1-216-812-11	METAL CHIP 180	5% 1/10W
R7317	1-218-851-11	METAL CHIP 1.5K	0.5% 1/10W
R7318	1-216-025-11	RES-CHIP 100	5% 1/10W
R7319	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7320	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7322	1-216-838-11	METAL CHIP 27K	5% 1/10W
R7323	1-216-025-11	RES-CHIP 100	5% 1/10W
R7324	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7325	1-216-812-11	METAL CHIP 180	5% 1/10W
R7326	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7327	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7328	1-218-851-11	METAL CHIP 1.5K	0.5% 1/10W
R7329	1-243-624-71	METAL OXIDE 33K	5% 3W
R7330	1-216-838-11	METAL CHIP 27K	5% 1/10W
R7331	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7332	1-243-624-71	METAL OXIDE 33K	5% 3W
R7333	1-219-744-11	METAL 220	5% 1/2W
R7335	1-216-025-11	RES-CHIP 100	5% 1/10W
R7337	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7338	1-216-848-11	METAL CHIP 180K	5% 1/10W
R7340	1-219-744-11	METAL 220	5% 1/2W
R7341	1-216-838-11	METAL CHIP 27K	5% 1/10W
R7342	1-216-833-11	METAL CHIP 10K	5% 1/10W
R7344	1-243-624-71	METAL OXIDE 33K	5% 3W
R7345	1-219-744-11	METAL 220	5% 1/2W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R7348	1-202-847-00	SOLID 560K 20%	1/2W
R7350	1-219-743-11	METAL 100 5%	1/2W
R7351	1-219-743-11	METAL 100 5%	1/2W
R7353	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7354	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7355	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7357	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7358	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7359	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7360	1-535-143-31	LEAD, JUMPER (15.0MM)	
R7362	1-535-143-31	LEAD, JUMPER (15.0MM)	
R7363	1-216-295-91	SHORT CHIP 0	
R7364	1-216-839-11	METAL CHIP 33K 5%	1/10W
R7365	1-216-839-11	METAL CHIP 33K 5%	1/10W
R7366	1-216-839-11	METAL CHIP 33K 5%	1/10W
R7367	1-249-377-11	CARBON 0.47 5%	1/4W
R7368	1-249-377-11	CARBON 0.47 5%	1/4W
R7369	1-260-328-11	CARBON 1K 5%	1/2W

< RESISTOR VARIABLE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RV7301	1-241-714-11	RES, ADJ, METAL FILM 110M	

< SPARK GAP >

REF.NO.	PART.NO	DESCRIPTION	REMARK
SG7301	1-519-421-11	GAP, DISCHARGE	

* A-1405-503-A J4 Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C2300	1-107-715-11	ELECT 22UF	20.00% 50V
C2303	1-104-665-11	ELECT 100UF	20.00% 25V
C2304	1-104-665-11	ELECT 100UF	20.00% 25V
C2305	1-126-941-11	ELECT 470UF	20.00% 25V
C2306	1-104-665-11	ELECT 100UF	20.00% 25V
C2307	1-104-665-11	ELECT 100UF	20.00% 25V
C2308	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2309	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2600	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2601	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2602	1-164-346-11	CERAMIC CHIP 1UF	16V
C2603	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2604	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2605	1-164-346-11	CERAMIC CHIP 1UF	16V
C2625	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2626	1-126-947-11	ELECT 47UF	20.00% 35V
C2627	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2628	1-164-346-11	CERAMIC CHIP 1UF	16V
C2629	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2630	1-126-947-11	ELECT 47UF	20.00% 35V
C2631	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2632	1-164-346-11	CERAMIC CHIP 1UF	16V
C2650	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2651	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2652	1-126-947-11	ELECT 47UF	20.00% 35V
C2653	1-164-346-11	CERAMIC CHIP 1UF	16V
C2654	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2655	1-126-947-11	ELECT 47UF	20.00% 35V
C2656	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2657	1-164-346-11	CERAMIC CHIP 1UF	16V
C2675	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2676	1-164-346-11	CERAMIC CHIP 1UF	16V
C2677	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2678	1-164-346-11	CERAMIC CHIP 1UF	16V
C2700	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2701	1-164-346-11	CERAMIC CHIP 1UF	16V
C2702	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2703	1-164-346-11	CERAMIC CHIP 1UF	16V
C2705	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2706	1-104-665-11	ELECT 100UF	20.00% 25V
C2707	1-104-665-11	ELECT 100UF	20.00% 25V
C3100	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3101	1-104-665-11	ELECT 100UF	20.00% 25V
C3102	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3103	1-104-665-11	ELECT 100UF	20.00% 25V
C3105	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3106	1-104-665-11	ELECT 100UF	20.00% 25V
C3107	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3108	1-104-665-11	ELECT 100UF	20.00% 25V
C3110	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3111	1-104-665-11	ELECT 100UF	20.00% 25V
C3300	1-126-947-11	ELECT 47UF	20.00% 35V
C3301	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3302	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3304	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3305	1-164-346-11	CERAMIC CHIP 1UF	16V
C3310	1-104-665-11	ELECT 100UF	20.00% 25V
C3313	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3314	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3315	1-126-964-11	ELECT 10UF	20.00% 50V
C3317	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3318	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3319	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3320	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3321	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3322	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C3323	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3324	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C3325	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3327	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3328	1-164-346-11	CERAMIC CHIP 1UF	16V
C3330	1-164-346-11	CERAMIC CHIP 1UF	16V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3331	1-164-346-11	CERAMIC CHIP 1UF	16V
C3332	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3333	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3334	1-126-964-11	ELECT 10UF	20.00% 50V
C3335	1-126-947-11	ELECT 47UF	20.00% 35V
C3336	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3337	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3338	1-164-346-11	CERAMIC CHIP 1UF	16V
C3339	1-164-346-11	CERAMIC CHIP 1UF	16V
C3342	1-104-665-11	ELECT 100UF	20.00% 25V
C3343	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3400	1-126-947-11	ELECT 47UF	20.00% 35V
C3401	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3402	1-126-947-11	ELECT 47UF	20.00% 35V
C3403	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3406	1-126-964-11	ELECT 10UF	20.00% 50V
C3407	1-126-964-11	ELECT 10UF	20.00% 50V
C3408	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3410	1-126-941-11	ELECT 470UF	20.00% 25V
C3411	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3412	1-126-968-11	ELECT 100UF	20.00% 50V
C3413	1-164-346-11	CERAMIC CHIP 1UF	16V
C3414	1-164-346-11	CERAMIC CHIP 1UF	16V
C3415	1-164-346-11	CERAMIC CHIP 1UF	16V
C3416	1-164-346-11	CERAMIC CHIP 1UF	16V
C3417	1-164-346-11	CERAMIC CHIP 1UF	16V
C3418	1-164-346-11	CERAMIC CHIP 1UF	16V
C3419	1-104-665-11	ELECT 100UF	20.00% 25V
C3420	1-104-665-11	ELECT 100UF	20.00% 25V
C3421	1-104-665-11	ELECT 100UF	20.00% 25V
C3450	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C3451	1-126-933-11	ELECT 100UF	20.00% 16V
C3500	1-126-947-11	ELECT 47UF	20.00% 35V
C3501	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3502	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3503	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3504	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3505	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3506	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3507	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3600	1-104-665-11	ELECT 100UF	20.00% 25V
C3601	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3616	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3631	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
C3650	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3653	1-126-964-11	ELECT 10UF	20.00% 50V
C3654	1-126-964-11	ELECT 10UF	20.00% 50V
C3675	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3676	1-104-665-11	ELECT 100UF	20.00% 25V
C3677	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C3678	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C3679	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9106	1-126-947-11	ELECT 47UF	20.00% 35V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN1001	* 1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
CN3601	* 1-816-666-11	CONNECTOR, RGB 21P	
CN3602	* 1-816-666-11	CONNECTOR, RGB 21P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D2300	8-719-083-57	DIODE UDZS-TE173.6B	
D2600	8-719-083-82	DIODE UDZS-TE17-12B	
D2602	8-719-083-82	DIODE UDZS-TE17-12B	
D2626	8-719-083-82	DIODE UDZS-TE17-12B	
D2628	8-719-083-82	DIODE UDZS-TE17-12B	
D2650	8-719-083-82	DIODE UDZS-TE17-12B	
D2651	8-719-083-82	DIODE UDZS-TE17-12B	
D2652	8-719-083-82	DIODE UDZS-TE17-12B	
D2653	8-719-083-82	DIODE UDZS-TE17-12B	
D2675	8-719-083-82	DIODE UDZS-TE17-12B	
D2676	8-719-083-82	DIODE UDZS-TE17-12B	
D2700	8-719-083-82	DIODE UDZS-TE17-12B	
D2701	8-719-083-82	DIODE UDZS-TE17-12B	
D3600	8-719-083-82	DIODE UDZS-TE17-12B	
D3601	8-719-083-82	DIODE UDZS-TE17-12B	
D3602	8-719-083-82	DIODE UDZS-TE17-12B	
D3603	8-719-083-82	DIODE UDZS-TE17-12B	
D3604	8-719-083-82	DIODE UDZS-TE17-12B	
D3605	8-719-083-82	DIODE UDZS-TE17-12B	
D3606	8-719-083-82	DIODE UDZS-TE17-12B	
D3625	8-719-083-82	DIODE UDZS-TE17-12B	
D3626	8-719-083-82	DIODE UDZS-TE17-12B	
D3627	8-719-083-82	DIODE UDZS-TE17-12B	
D3628	8-719-083-82	DIODE UDZS-TE17-12B	
D3629	8-719-083-82	DIODE UDZS-TE17-12B	
D3630	8-719-083-82	DIODE UDZS-TE17-12B	
D3631	8-719-083-82	DIODE UDZS-TE17-12B	
D3650	8-719-083-82	DIODE UDZS-TE17-12B	
D3651	8-719-083-82	DIODE UDZS-TE17-12B	
D3652	8-719-083-82	DIODE UDZS-TE17-12B	
D3653	8-719-083-82	DIODE UDZS-TE17-12B	
D3654	8-719-083-82	DIODE UDZS-TE17-12B	
D3675	8-719-083-82	DIODE UDZS-TE17-12B	
D3676	8-719-083-82	DIODE UDZS-TE17-12B	
D3677	8-719-083-82	DIODE UDZS-TE17-12B	
D3700	8-719-083-82	DIODE UDZS-TE17-12B	
D3701	8-719-083-82	DIODE UDZS-TE17-12B	
D3702	8-719-056-84	DIODE UDZ-TE-17-7.5B	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< FERRITE BEAD >	
FB8800	1-469-869-21	FERRITE 0UH	
		< FILTER >	
FL3300	1-236-071-11	ENCAPSULATED COMPONENT	
FL3301	1-236-071-11	ENCAPSULATED COMPONENT	
FL3400	1-236-071-11	ENCAPSULATED COMPONENT	
FL3500	1-236-071-11	ENCAPSULATED COMPONENT	
		< IC >	
IC2300	8-759-576-76	IC TDA2822D013TR	
IC3300	8-752-096-83	IC CXA2149AQ-TL	
IC3400	8-752-068-45	IC CXA1855Q	
IC3500	8-759-587-03	IC TDA8601T	
		< COIL >	
L3305	1-414-934-21	INDUCTOR 10UH	
L3308	1-414-934-21	INDUCTOR 10UH	
		< TRANSISTOR >	
Q2300	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2625	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2626	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3300	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3305	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q3306	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q3310	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q3311	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q3312	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q3400	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3402	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3405	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3406	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3407	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3410	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3600	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3625	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3650	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3651	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3652	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8824	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< RESISTOR >	
R2306	1-216-811-11	METAL CHIP 150 5%	1/10W
R2307	1-216-811-11	METAL CHIP 150 5%	1/10W
R2308	1-216-811-11	METAL CHIP 150 5%	1/10W
R2309	1-216-811-11	METAL CHIP 150 5%	1/10W
R2310	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2311	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2312	1-249-389-11	CARBON 4.7 5%	1/4W
R2313	1-249-389-11	CARBON 4.7 5%	1/4W
R2314	1-216-813-11	METAL CHIP 220 5%	1/10W
R2315	1-216-813-11	METAL CHIP 220 5%	1/10W
R2316	1-216-837-11	METAL CHIP 22K 5%	1/10W
R2317	1-216-837-11	METAL CHIP 22K 5%	1/10W
R2321	1-216-864-11	SHORT CHIP 0	
R2325	1-216-864-11	SHORT CHIP 0	
R2331	1-216-864-11	SHORT CHIP 0	
R2600	1-216-817-11	METAL CHIP 470 5%	1/10W
R2601	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2602	1-216-813-11	METAL CHIP 220 5%	1/10W
R2603	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2604	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2605	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2606	1-216-817-11	METAL CHIP 470 5%	1/10W
R2607	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2608	1-216-813-11	METAL CHIP 220 5%	1/10W
R2609	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2610	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2611	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2625	1-216-817-11	METAL CHIP 470 5%	1/10W
R2626	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2627	1-216-813-11	METAL CHIP 220 5%	1/10W
R2628	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R2629	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2630	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2631	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2632	1-216-817-11	METAL CHIP 470 5%	1/10W
R2633	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2634	1-216-813-11	METAL CHIP 220 5%	1/10W
R2635	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R2636	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2637	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2638	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2650	1-216-817-11	METAL CHIP 470 5%	1/10W
R2651	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2652	1-216-813-11	METAL CHIP 220 5%	1/10W
R2654	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2655	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2656	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R2658	1-216-817-11	METAL CHIP 470 5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK		
R2659	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2660	1-216-813-11	METAL CHIP	220	5%	1/10W
R2661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2662	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2663	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2676	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2677	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2680	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2681	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2700	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2701	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2702	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2704	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2705	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3101	1-216-864-11	SHORT CHIP	0		
R3103	1-216-817-11	METAL CHIP	470	5%	1/10W
R3104	1-216-817-11	METAL CHIP	470	5%	1/10W
R3105	1-216-817-11	METAL CHIP	470	5%	1/10W
R3106	1-216-842-11	METAL CHIP	56K	5%	1/10W
R3107	1-218-725-11	METAL CHIP	24K	0.5%	1/10W
R3108	1-216-864-11	SHORT CHIP	0		
R3109	1-216-817-11	METAL CHIP	470	5%	1/10W
R3110	1-216-817-11	METAL CHIP	470	5%	1/10W
R3111	1-216-817-11	METAL CHIP	470	5%	1/10W
R3112	1-216-842-11	METAL CHIP	56K	5%	1/10W
R3113	1-218-725-11	METAL CHIP	24K	0.5%	1/10W
R3121	1-216-817-11	METAL CHIP	470	5%	1/10W
R3122	1-216-864-11	SHORT CHIP	0		
R3123	1-216-817-11	METAL CHIP	470	5%	1/10W
R3124	1-216-817-11	METAL CHIP	470	5%	1/10W
R3125	1-216-842-11	METAL CHIP	56K	5%	1/10W
R3126	1-218-725-11	METAL CHIP	24K	0.5%	1/10W
R3127	1-216-817-11	METAL CHIP	470	5%	1/10W
R3128	1-216-864-11	SHORT CHIP	0		
R3129	1-216-817-11	METAL CHIP	470	5%	1/10W
R3130	1-216-817-11	METAL CHIP	470	5%	1/10W
R3131	1-218-725-11	METAL CHIP	24K	0.5%	1/10W
R3132	1-216-842-11	METAL CHIP	56K	5%	1/10W
R3133	1-216-817-11	METAL CHIP	470	5%	1/10W
R3134	1-216-864-11	SHORT CHIP	0		
R3135	1-216-817-11	METAL CHIP	470	5%	1/10W
R3136	1-216-817-11	METAL CHIP	470	5%	1/10W
R3137	1-216-842-11	METAL CHIP	56K	5%	1/10W
R3138	1-218-725-11	METAL CHIP	24K	0.5%	1/10W
R3143	1-216-864-11	SHORT CHIP	0		
R3144	1-216-864-11	SHORT CHIP	0		
R3145	1-216-864-11	SHORT CHIP	0		
R3146	1-216-864-11	SHORT CHIP	0		
R3147	1-216-864-11	SHORT CHIP	0		
R3300	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3301	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3310	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3311	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3313	1-216-817-11	METAL CHIP	470	5%	1/10W
R3314	1-216-819-11	METAL CHIP	680	5%	1/10W
R3315	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3317	1-216-843-11	METAL CHIP	68K	5%	1/10W
R3318	1-216-843-11	METAL CHIP	68K	5%	1/10W
R3319	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R3320	1-218-686-11	METAL CHIP	560	0.5%	1/10W
R3321	1-218-686-11	METAL CHIP	560	0.5%	1/10W
R3323	1-216-809-11	METAL CHIP	100	5%	1/10W
R3324	1-216-809-11	METAL CHIP	100	5%	1/10W
R3326	1-216-864-11	SHORT CHIP	0		
R3329	1-216-864-91	SHORT CHIP	0		
R3330	1-216-864-11	SHORT CHIP	0		
R3331	1-414-594-11	FERRITE	0		
R3332	1-216-864-11	SHORT CHIP	0		
R3333	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3335	1-216-864-11	SHORT CHIP	0		
R3336	1-216-864-11	SHORT CHIP	0		
R3338	1-216-864-11	SHORT CHIP	0		
R3340	1-216-864-11	SHORT CHIP	0		
R3351	1-216-864-11	SHORT CHIP	0		
R3400	1-216-809-11	METAL CHIP	100	5%	1/10W
R3401	1-216-809-11	METAL CHIP	100	5%	1/10W
R3402	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3403	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3405	1-216-817-11	METAL CHIP	470	5%	1/10W
R3406	1-216-819-11	METAL CHIP	680	5%	1/10W
R3407	1-216-809-11	METAL CHIP	100	5%	1/10W
R3408	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3410	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3411	1-216-809-11	METAL CHIP	100	5%	1/10W
R3412	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3413	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3414	1-216-817-11	METAL CHIP	470	5%	1/10W
R3415	1-216-817-11	METAL CHIP	470	5%	1/10W
R3416	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3417	1-216-864-11	SHORT CHIP	0		
R3419	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3420	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3421	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3422	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3423	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3456	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3460	1-218-871-11	METAL CHIP	10K	0.5%	1/10W

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R3461	1-216-809-11	METAL CHIP	100	5%	1/10W
R3462	1-216-864-11	SHORT CHIP	0		
R3463	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R3500	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3501	1-216-864-11	SHORT CHIP	0		
R3502	1-216-864-11	SHORT CHIP	0		
R3503	1-216-864-11	SHORT CHIP	0		
R3504	1-216-864-11	SHORT CHIP	0		
R3600	1-216-022-00	RES-CHIP	75	5%	1/10W
R3601	1-216-805-11	METAL CHIP	47	5%	1/10W
R3602	1-216-025-11	METAL CHIP	100	5%	1/10W
R3603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3604	1-216-022-00	RES-CHIP	75	5%	1/10W
R3605	1-216-805-11	METAL CHIP	47	5%	1/10W
R3606	1-216-022-00	RES-CHIP	75	5%	1/10W
R3607	1-216-805-11	METAL CHIP	47	5%	1/10W
R3608	1-216-022-00	RES-CHIP	75	5%	1/10W
R3609	1-216-805-11	METAL CHIP	47	5%	1/10W
R3610	1-216-022-00	RES-CHIP	75	5%	1/10W
R3611	1-216-843-11	METAL CHIP	68K	5%	1/10W
R3612	1-216-838-11	METAL CHIP	27K	5%	1/10W
R3613	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3614	1-216-022-00	RES-CHIP	75	5%	1/10W
R3615	1-216-017-91	RES-CHIP	47	5%	1/10W
R3625	1-216-022-00	RES-CHIP	75	5%	1/10W
R3626	1-216-805-11	METAL CHIP	47	5%	1/10W
R3627	1-216-025-11	METAL CHIP	100	5%	1/10W
R3628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3629	1-216-022-00	RES-CHIP	75	5%	1/10W
R3630	1-216-805-11	METAL CHIP	47	5%	1/10W
R3631	1-216-022-00	RES-CHIP	75	5%	1/10W
R3632	1-216-805-11	METAL CHIP	47	5%	1/10W
R3633	1-216-022-00	RES-CHIP	75	5%	1/10W
R3634	1-216-805-11	METAL CHIP	47	5%	1/10W
R3635	1-216-022-00	RES-CHIP	75	5%	1/10W
R3636	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3638	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3639	1-216-022-00	RES-CHIP	75	5%	1/10W
R3640	1-216-017-91	RES-CHIP	47	5%	1/10W
R3650	1-216-809-11	METAL CHIP	100	5%	1/10W
R3651	1-216-025-11	METAL CHIP	10K	5%	1/10W
R3652	1-216-801-11	METAL CHIP	22	5%	1/10W
R3653	1-216-022-00	RES-CHIP	75	5%	1/10W
R3654	1-216-805-11	METAL CHIP	47	5%	1/10W
R3656	1-216-022-00	RES-CHIP	75	5%	1/10W
R3659	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3660	1-216-022-00	RES-CHIP	75	5%	1/10W
R3661	1-216-017-91	RES-CHIP	47	5%	1/10W
R3675	1-216-025-11	METAL CHIP	100	5%	1/10W
R3676	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3677	1-216-022-00	RES-CHIP	75	5%	1/10W
R3678	1-216-805-11	METAL CHIP	47	5%	1/10W
R3679	1-216-022-00	RES-CHIP	75	5%	1/10W
R3680	1-216-017-91	RES-CHIP	47	5%	1/10W
R3681	1-216-843-11	METAL CHIP	68K	5%	1/10W
R3682	1-216-838-11	METAL CHIP	27K	5%	1/10W
R3700	1-218-285-11	METAL CHIP	75	5%	1/10W
R3701	1-216-805-11	METAL CHIP	47	5%	1/10W
R3702	1-216-864-11	SHORT CHIP	0		
R3703	1-218-285-11	METAL CHIP	75	5%	1/10W
R3704	1-216-805-11	METAL CHIP	47	5%	1/10W
R3705	1-216-295-91	SHORT CHIP	0		
R3714	1-216-864-11	SHORT CHIP	0		
R3716	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3846	1-216-864-11	SHORT CHIP	0		
R3847	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3849	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3851	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3852	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3853	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3854	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3855	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3856	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3857	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3858	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R3863	1-414-594-11	FERRITE	0UH		
R3867	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3868	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3869	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3870	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8887	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8890	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R8891	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R9053	1-216-839-11	METAL CHIP	33K	5%	1/10W
R9089	1-216-797-11	METAL CHIP	10	5%	1/10W
R9090	1-216-797-11	METAL CHIP	10	5%	1/10W
R9091	1-216-864-11	SHORT CHIP	0		
R9092	1-216-864-11	SHORT CHIP	0		

* A-1405-505-A G1 Board, Complete

	4-202-373-01	SPRING, IC
	4-382-854-01	SCREW (M3X8), P, SW (+)

< CAPACITOR >

C4600 △	1-161-964-91	CERAMIC	0.0047UF		250V
C4601 △	1-161-964-91	CERAMIC	0.0047UF		250V
C4602	1-165-685-11	ELECT(BLOCK)	82UF	20%	450V
C4603	1-127-568-51	CERAMIC	4700PF	10%	2KV

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

G1

REF.NO.		PART.NO	DESCRIPTION		REMARK	
C4604		1-126-964-11	ELECT	10UF	20.00%	50V
C4605		1-102-228-00	CERAMIC	470PF	10.00%	500V
C4606		1-162-318-11	CERAMIC	0.001UF	10.00%	500V
C4607		1-165-602-91	CERAMIC	220PF	10	2KV
C4608		1-107-909-11	ELECT	47UF	20.00%	50V
C4610		1-130-777-00	MYLAR	0.1UF	5.00%	100V
C4611		1-126-971-11	ELECT	470UF	20.00%	50V
C4612		1-136-497-81	FILM	0.1UF	5.00%	50V
C4615		1-136-497-81	FILM	0.1UF	5.00%	50V
C4616		1-104-665-11	ELECT	100UF	20.00%	25V
C4618		1-136-497-81	FILM	0.1UF	5.00%	50V
C4619		1-104-665-11	ELECT	100UF	20.00%	25V
C4621		1-136-497-81	FILM	0.1UF	5.00%	50V
C4622		1-104-665-11	ELECT	100UF	20.00%	25V
C4623		1-136-497-81	FILM	0.1UF	5.00%	50V
C4624		1-126-961-11	ELECT	2.2UF	20.00%	50V
C4625		1-115-792-11	ELECT	0.0022F	20.00%	25V
C4626		1-104-665-11	ELECT	100UF	20.00%	25V
C4627		1-136-497-81	FILM	0.1UF	5.00%	50V
C4628		1-115-766-51	ELECT	0.0022F	20.00%	16V
C4629		1-137-733-51	ELECT	4700UF	20%	25V
			< CONNECTOR >			
CN4600	⚠ *	1-580-843-11	PIN, CONNECTOR (POWER)			
CN4601	*	1-564-506-11	PLUG, CONNECTOR 3P			
CN4602		1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P			
CN4603	*	1-564-511-11	PLUG, CONNECTOR 8P			
CN4604		1-695-915-11	TAB (CONTACT)			
CN4605		1-695-915-11	TAB (CONTACT)			
			< DIODE >			
D4600		8-719-025-88	DIODE GBU4JL-6088			
D4601		8-719-080-26	DIODE SARS01V0			
D4602		8-719-075-11	DIODE AG01ZV0			
D4603		8-719-075-11	DIODE AG01ZV0			
D4604		8-719-075-11	DIODE AG01ZV0			
D4605		8-719-075-11	DIODE AG01ZV0			
D4606		8-719-072-17	DIODE BYW100-200RL			
D4607		8-719-085-10	DIODE FMB-24LF654			
D4608		8-719-312-10	DIODE RU4AM-T3			
D4609		8-719-510-12	DIODE D10SC4M			
D4611		8-719-991-33	DIODE 1SS133T-77			
D4612		8-719-063-70	DIODE D1NL20U			
			< FERRITE BEAD >			
FB4602		1-410-396-41	FERRITE	0.45UH		
FB4603		1-410-396-41	FERRITE	0.45UH		

REF.NO.		PART.NO	DESCRIPTION		REMARK	
			< IC >			
IC4600		6-700-292-01	IC STR-L474-LF429			
IC4601	⚠	8-749-010-64	PHOTO COUPLER PC123F2			
IC4602		6-700-293-01	IC SE-012N-LF4			
IC4604		8-759-648-19	IC L7809CV/LSY			
			< COIL >			
L4600		1-410-397-21	FERRITE	1.1UH		
L4602		1-412-519-11	INDUCTOR	3.3UH		
L4603		1-412-519-11	INDUCTOR	3.3UH		
L4604		1-406-656-21	INDUCTOR	3.3UH		
			< PROTECTOR MODULE >			
PS4601		1-535-465-11	LEAD, JUMPER (5.0MM)			
PS4602		1-535-465-11	LEAD, JUMPER (5.0MM)			
PS4603	⚠	1-801-550-21	IC LINK	2.5A	MP250	
PS4604	⚠	1-801-550-21	IC LINK	2.5A	MP250	
PS4605	⚠	1-533-597-41	IC LINK	5A	90V	
			< TRANSISTOR >			
Q4600		8-729-029-56	TRANSISTOR DTA144ESA			
Q4601		8-729-119-78	TRANSISTOR 2SC2785-HFE			
			< RESISTOR >			
R4600	⚠	1-217-155-00	METAL	1	10%	2W
R4601		1-260-127-11	CARBON	220K	5%	1/2W
R4602	⚠	1-217-371-00	FUSIBLE	0.47	10%	1/4W
R4603		1-260-133-11	CARBON	680K	5%	1/2W
R4604		1-215-884-21	METAL OXIDE	47	5%	2W
R4605		1-249-401-11	CARBON	47	5%	1/4W
R4607		1-249-421-11	CARBON	2.2K	5%	1/4W
R4608		1-260-128-91	CARBON	270K	5%	1/2W
R4609		1-249-419-11	CARBON	1.5K	5%	1/4W
R4610		1-249-403-11	CARBON	68	5%	1/4W
R4611		1-249-418-11	CARBON	1.2K	5%	1/4W
R4612		1-249-419-11	CARBON	1.5K	5%	1/4W
R4613		1-259-880-11	CARBON	2.2M	5%	1/4W
R4614		1-249-417-11	CARBON	1K	5%	1/4W
R4615		1-249-425-11	CARBON	4.7K	5%	1/4W
R4616		1-216-366-00	METAL OXIDE	0.56	5%	2W
R4617		1-249-415-11	CARBON	680	5%	1/4W
R4618		1-249-420-11	CARBON	1.8K	5%	1/4W
			< RELAY >			
RY4601	⚠	1-755-389-11	RELAY (AC POWER)			
			< TRANSFORMER >			
T4601	⚠	1-437-445-21	TRANSFORMER, CONVERTER (SRT)			

* A-1410-377-A SF Board, Complete (KV-32HQ100)
* A-1405-506-A SF Board, Complete (KV-36HQ100)

SF Board, Common Parts

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C5205	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5207	1-126-960-11	ELECT 1UF	20.00% 50V
C5209	1-126-964-11	ELECT 10UF	20.00% 50V
C5211	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C5212	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C5213	1-126-964-11	ELECT 10UF	20.00% 50V
C5214	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5216	1-117-722-91	ELECT 2200UF	20.00% 10V
C5239	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5240	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5502	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5503	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5504	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5505	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5506	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C5507	1-104-665-11	ELECT 100UF	20.00% 25V
C5508	1-136-497-81	FILM 0.1UF	5.00% 50V
C5510	1-104-665-11	ELECT 100UF	20.00% 25V
C5512	1-136-497-81	FILM 0.1UF	5.00% 50V
C5517	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C5518	1-136-497-81	FILM 0.1UF	5.00% 50V
C5520	1-136-497-81	FILM 0.1UF	5.00% 50V
C5521	1-104-665-11	ELECT 100UF	20.00% 25V
C5522	1-104-665-11	ELECT 100UF	20.00% 25V
C5523	1-126-935-11	ELECT 470UF	20.00% 16V
C5524	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5525	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5526	1-126-935-11	ELECT 470UF	20.00% 16V
C5527	1-126-964-11	ELECT 10UF	20.00% 50V
C5528	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5529	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5530	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5531	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5532	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5533	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5534	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5535	1-126-960-11	ELECT 1UF	20.00% 50V
C5536	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5537	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5538	1-126-964-11	ELECT 10UF	20.00% 50V
C5539	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5540	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5541	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5547	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5548	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5549	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5551	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5554	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5555	1-136-497-81	FILM 0.1UF	5.00% 50V
C5556	1-136-497-81	FILM 0.1UF	5.00% 50V
		< CONNECTOR >	
CN5500	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN5501	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN5505	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN5507	1-564-505-41	PLUG, CONNECTOR 2P	
CN5508	* 1-564-515-11	PLUG, CONNECTOR 12P	
CN5509	* 1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D5200	8-719-081-97	DIODE MMDL914T1	
D5201	8-719-081-97	DIODE MMDL914T1	
		< IC >	
IC5200	8-759-700-78	IC NJM082M	
IC5205	8-759-100-96	IC UPC4558G2	
IC5501	8-759-822-38	IC LA6510	
IC5502	8-759-803-42	IC LA6500-FA	
IC5503	8-759-445-59	IC BA033T	
IC5504	6-803-081-01	IC CXD9761Q	
IC5505	6-702-455-01	IC NJM12903M-TE2	
		< RESISTOR >	
R5202	1-216-815-11	METAL CHIP 330	5% 1/10W
R5203	1-216-815-11	METAL CHIP 330	5% 1/10W
R5204	1-216-833-11	METAL CHIP 10K	5% 1/10W
R5208	1-216-833-11	METAL CHIP 10K	5% 1/10W
R5210	1-218-913-91	METAL CHIP 560K	0.5% 1/10W
R5217	1-249-383-11	CARBON 1.5	5% 1/4W
R5224	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R5225	1-216-841-11	METAL CHIP 47K	5% 1/10W
R5229	1-249-383-11	CARBON 1.5	5% 1/4W
R5231	1-216-821-11	METAL CHIP 1K	5% 1/10W
R5232	1-218-901-11	METAL CHIP 180K	0.5% 1/10W
R5234	1-216-833-11	METAL CHIP 10K	5% 1/10W
R5256	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R5258	1-218-878-11	METAL CHIP 20K	0.5% 1/10W
R5500	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R5503	1-218-878-11	METAL CHIP 20K	0.5% 1/10W
R5504	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R5506	1-218-871-11	METAL CHIP 10K	0.5% 1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R5507	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5508	1-218-878-11	METAL CHIP	20K	0.5%	1/10W
R5510	1-218-878-11	METAL CHIP	20K	0.5%	1/10W
R5513	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5514	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5516	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R5517	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R5519	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R5520	1-218-882-11	METAL CHIP	30K	0.5%	1/10W
R5521	1-216-851-11	METAL CHIP	330K	5%	1/10W
R5522	1-249-383-11	CARBON	1.5	5%	1/4W
R5523	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R5526	1-215-869-11	METAL OXIDE	1K	5%	1W
R5527	1-249-383-11	CARBON	1.5	5%	1/4W
R5528	1-243-831-91	METAL OXIDE	12	5%	1W
R5530	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R5531	1-249-383-11	CARBON	1.5	5%	1/4W
R5532	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R5535	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R5536	1-249-383-11	CARBON	1.5	5%	1/4W
R5538	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R5539	1-249-441-11	CARBON	100K	5%	1/4W
R5541	1-216-851-11	METAL CHIP	330K	5%	1/10W
R5542	1-215-857-11	METAL OXIDE	10	5%	1W
R5543	1-249-383-11	CARBON	1.5	5%	1/4W
R5544	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R5545	1-243-831-91	METAL OXIDE	12	5%	1W
R5546	1-215-869-11	METAL OXIDE	1K	5%	1W
R5547	1-249-383-11	CARBON	1.5	5%	1/4W
R5548	1-249-383-11	CARBON	1.5	5%	1/4W
R5550	1-216-864-11	SHORT CHIP	0		
R5551	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R5552	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R5553	1-211-976-11	METAL CHIP	20	0.5%	1/10W
R5554	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R5555	1-216-864-11	SHORT CHIP	0		
R5556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5557	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R5558	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R5559	1-211-986-11	METAL CHIP	51	0.5%	1/10W
R5560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5561	1-211-986-11	METAL CHIP	51	0.5%	1/10W
R5562	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5563	1-216-797-11	METAL CHIP	10	5%	1/10W
R5564	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R5565	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5566	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R5567	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5575	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5577	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5578	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5580	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5581	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5584	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5591	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R5592	1-211-985-11	METAL CHIP	47	0.5%	1/10W

SF Board, Variant Parts KV-32HQ100

< CAPACITOR >

C5200	NOT FITTED
C5201	NOT FITTED
C5202	NOT FITTED
C5203	NOT FITTED
C5204	NOT FITTED
C5206	NOT FITTED
C5208	NOT FITTED
C5210	NOT FITTED
C5215	NOT FITTED
C5237	NOT FITTED
C5238	NOT FITTED
C5280	NOT FITTED
C5281	NOT FITTED
C5282	NOT FITTED
C5283	NOT FITTED
C5284	NOT FITTED

< CONNECTOR >

CN5200	NOT FITTED
CN5280	NOT FITTED

< IC >

IC5201	NOT FITTED
IC5280	NOT FITTED

< RESISTOR >

R5200	NOT FITTED
R5201	NOT FITTED
R5205	NOT FITTED
R5206	NOT FITTED
R5207	NOT FITTED
R5209	NOT FITTED
R5211	NOT FITTED
R5212	NOT FITTED
R5213	NOT FITTED
R5214	NOT FITTED

REF.NO.	PART.NO	DESCRIPTION	REMARK
R5215	NOT FITTED		
R5216	NOT FITTED		
R5218	NOT FITTED		
R5219	NOT FITTED		
R5220	NOT FITTED		
R5230	1-218-915-11	METAL CHIP 680K 0.5% 1/10W	
R5233	NOT FITTED		
R5254	NOT FITTED		
R5255	NOT FITTED		
R5257	NOT FITTED		
R5259	NOT FITTED		
R5260	NOT FITTED		
R5261	NOT FITTED		
R5262	NOT FITTED		
R5263	NOT FITTED		
R5264	NOT FITTED		
R5280	NOT FITTED		
R5281	NOT FITTED		
R5282	NOT FITTED		
R5283	NOT FITTED		
R5284	NOT FITTED		
R5285	NOT FITTED		
R5286	NOT FITTED		
R5287	NOT FITTED		
R5288	NOT FITTED		
R5289	NOT FITTED		
R5290	NOT FITTED		
R5291	NOT FITTED		
R5292	NOT FITTED		

SF Board, Variant Parts KV-36HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C5200	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C5201	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
C5202	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C5203	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
C5204	1-104-665-11	ELECT 100UF 20.00% 25V	
C5206	1-104-665-11	ELECT 100UF 20.00% 25V	
C5208	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C5210	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C5215	1-162-970-11	CERAMIC CHIP 0.01UF 10.00% 25V	
C5237	1-162-967-11	CERAMIC CHIP 0.0033UF 10.00% 50V	
C5238	1-162-967-11	CERAMIC CHIP 0.0033UF 10.00% 50V	
C5280	1-162-967-11	CERAMIC CHIP 0.0033UF 10.00% 50V	
C5281	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C5282	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
C5283	1-104-665-11	ELECT 100UF 20.00% 25V	
C5284	1-104-665-11	ELECT 100UF 20.00% 25V	

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN5200	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN5280	* 1-564-506-11	PLUG, CONNECTOR 3P	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC5201	8-749-018-54	IC STK391-120	
IC5280	8-749-018-54	IC STK391-120	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R5200	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R5201	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R5205	1-249-383-11	CARBON 1.5 5% 1/4W	
R5206	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R5207	1-243-693-71	METAL OXIDE 270 5% 1W	
R5209	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R5211	1-243-546-71	METAL OXIDE 3.3 5% 2W	
R5212	1-249-383-11	CARBON 1.5 5% 1/4W	
R5213	1-243-693-71	METAL OXIDE 270 5% 1W	
R5214	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R5215	1-243-546-71	METAL OXIDE 3.3 5% 2W	
R5216	1-249-381-11	CARBON 1 5% 1/4W	
R5218	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R5219	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R5220	1-249-381-11	CARBON 1 5% 1/4W	
R5230	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R5233	1-218-888-91	RES CHIP 51K 0.5% 1/10W	
R5254	1-218-858-11	METAL CHIP 3K 0.5% 1/10W	
R5255	1-218-858-11	METAL CHIP 3K 0.5% 1/10W	
R5257	1-218-871-91	RES CHIP 10K 0.5% 1/10W	
R5259	1-218-863-91	RES CHIP 4.7K 0.5% 1/10W	
R5260	1-218-871-91	RES CHIP 10K 0.5% 1/10W	
R5261	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R5262	1-218-834-11	METAL CHIP 300 0.5% 1/10W	
R5263	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R5264	1-218-834-11	METAL CHIP 300 0.5% 1/10W	
R5280	1-218-858-11	METAL CHIP 3K 0.5% 1/10W	
R5281	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R5282	1-218-834-11	METAL CHIP 300 0.5% 1/10W	
R5283	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R5284	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R5285	1-249-383-11	CARBON 1.5 5% 1/4W	
R5286	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R5287	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R5288	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R5289	1-243-693-71	METAL OXIDE 270 5% 1W	
R5290	1-249-381-11	CARBON 1 5% 1/4W	
R5291	1-243-546-71	METAL OXIDE 3.3 5% 2W	
R5292	1-249-381-11	CARBON 1 5% 1/4W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
*** A-1405-666-A SF2 Board, Complete**			
		< CONNECTOR >	
CN5500	*1-564-506-11	PLUG, CONNECTOR 3P	
		< THERMISTOR >	
TH5501	1-807-796-11	THERMISTOR	
*** A-1405-539-A D1 Board, Complete 32HQ100**			
*** A-1405-507-A D1 Board, Complete 36HQ100**			
D1 Board, Common Parts			
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C8100	1-126-960-11	ELECT 1UF	20.00% 50V
C8101	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8102	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8104	1-106-383-00	MYLAR 0.047UF	10.00% 200V
C8105	1-126-960-11	ELECT 1UF	20.00% 50V
C8106	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8107	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8109	1-106-383-00	MYLAR 0.047UF	10.00% 200V
C8112	1-117-836-11	FILM 6800PF	3.00% 1.5KV
C8113	1-117-835-11	FILM 6200PF	3.00% 1.5KV
C8114	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8115	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8116	1-127-681-11	FILM 10000PF	2% 100V
C8117	1-115-519-11	FILM 0.56UF	5.00% 250V
C8118	1-107-846-11	FILM 0.1UF	5.00% 400V
C8120	1-117-662-11	FILM 0.18UF	5.00% 250V
C8121	1-107-846-11	FILM 0.1UF	5.00% 400V
C8122	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8200	1-123-024-21	ELECT 33UF	160V
C8201	1-107-656-11	ELECT 100UF	20.00% 250V
C8202	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8203	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8204	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8205	1-126-941-11	ELECT 470UF	20.00% 25V
C8206	1-126-941-11	ELECT 470UF	20.00% 25V
C8304	1-104-666-11	ELECT 220UF	20.00% 25V
C8305	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8313	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8314	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8501	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8502	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8503	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8506	1-126-947-11	ELECT 47UF	20.00% 35V
C8507	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8802	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8803	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8804	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8809	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8810	1-126-947-11	ELECT 47UF	20.00% 35V
C8811	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8812	1-126-960-11	ELECT 1UF	20.00% 50V
C8817	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8820	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C8821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8822	1-136-479-11	FILM 0.001UF	5.00% 100V
C8823	1-162-964-11	CERAMIC CHIP 0.001UF	5.00% 50V
C8824	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8825	1-126-960-11	ELECT 1UF	20.00% 50V
		< CONNECTOR >	
CN8500	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P	
CN8601	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN8611	* 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8612	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN8614	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN8615	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN8616	* 1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D8100	8-719-991-33	DIODE 1SS133T-77	
D8101	8-719-110-41	DIODE RD15ESB2	
D8102	8-719-110-41	DIODE RD15ESB2	
D8201	8-719-302-43	DIODE EL1Z	
D8202	8-719-302-43	DIODE EL1Z	
D8203	8-719-510-73	DIODE S3L20UF4	
D8204	8-719-510-73	DIODE S3L20UF4	
D8309	8-719-081-97	DIODE MMDL914T1	
D8311	8-719-081-97	DIODE MMDL914T1	
D8312	8-719-081-97	DIODE MMDL914T1	
D8313	8-719-081-97	DIODE MMDL914T1	
D8802	8-719-081-97	DIODE MMDL914T1	
D8804	8-719-081-97	DIODE MMDL914T1	
D8805	8-719-081-97	DIODE MMDL914T1	
		< IC >	
IC8501	8-759-998-98	IC LM358D	
IC8801	6-701-847-01	IC UPC1898CT-A	
		< COIL >	
L8101	1-406-985-11	INDUCTOR 2.2MH	
L8201	1-535-303-00	LEAD, JUMPER (5.0MM)	
L8202	1-535-303-00	LEAD, JUMPER (5.0MM)	
L8203	1-535-303-00	LEAD, JUMPER (5.0MM)	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
Q8010	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8011	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8014	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8015	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8100	8-729-048-47	TRANSISTOR	2SC2688(5)-LK		
Q8101	8-729-048-47	TRANSISTOR	2SC2688(5)-LK		
Q8102	6-550-669-01	TRANSISTOR	ST2310DHI		
Q8103	6-550-669-01	TRANSISTOR	ST2310DHI		
Q8105	8-729-050-48	TRANSISTOR	IRF614-005		
Q8308	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8501	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8502	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8503	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8504	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8507	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8508	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8701	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8801	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8802	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8806	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8807	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q8808	8-729-421-19	TRANSISTOR	UN2213		
Q8809	8-729-010-29	TRANSISTOR	MSD601-RST1		
Q8810	8-729-010-29	TRANSISTOR	MSD601-RST1		

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8028	1-249-411-11	CARBON	330	5%	1/4W
R8033	1-249-411-11	CARBON	330	5%	1/4W
R8100	1-243-584-71	METAL OXIDE	4.7K	5%	2W
R8102	1-249-419-11	CARBON	1.5K	5%	1/4W
R8103	1-260-340-11	CARBON	10K	5%	1/2W
R8105	1-243-613-71	METAL OXIDE	3.9K	5%	3W
R8107	1-249-419-11	CARBON	1.5K	5%	1/4W
R8108	1-260-340-11	CARBON	10K	5%	1/2W
R8109	1-243-949-71	METAL OXIDE	0.47	5%	2W
R8110	1-215-880-00	METAL OXIDE	10	5%	2W
R8111	1-216-361-21	METAL OXIDE	0.22	5%	2W
R8112	1-215-880-00	METAL OXIDE	10	5%	2W
R8115	1-215-493-00	METAL	1M	1%	1/4W
R8116	1-215-485-00	METAL	470K	1%	1/4W
R8117	1-215-493-00	METAL	1M	1%	1/4W
R8119	1-249-405-11	CARBON	100	5%	1/4W
R8120	1-249-425-11	CARBON	4.7K	5%	1/4W
R8121	1-249-425-11	CARBON	4.7K	5%	1/4W
R8201	1-260-123-11	CARBON	100K	5%	1/2W
R8202	1-212-934-00	FUSIBLE	1	5%	1/2W
R8206	1-260-288-11	CARBON	0.47	5%	1/2W
R8207	1-260-288-11	CARBON	0.47	5%	1/2W
R8226	1-260-288-11	CARBON	0.47	5%	1/2W
R8308	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8309	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8317	1-215-473-00	METAL	150K	1%	1/4W
R8318	1-215-461-00	METAL	47K	1%	1/4W
R8319	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8321	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8327	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R8331	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8333	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8334	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8336	1-215-469-00	METAL	100K	1%	1/4W
R8363	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8364	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R8501	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R8503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8508	1-216-864-11	SHORT CHIP	0		
R8509	1-216-864-11	SHORT CHIP	0		
R8510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8518	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R8701	1-215-469-00	METAL	100K	1%	1/4W
R8702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8703	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8802	1-216-864-11	SHORT CHIP	0		
R8803	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R8804	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8812	1-216-864-11	SHORT CHIP	0		
R8823	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8829	1-216-809-11	METAL CHIP	100	5%	1/10W
R8831	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8832	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8833	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R8834	1-215-469-00	METAL	100K	1%	1/4W
R8835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8836	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8837	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8842	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R8843	1-216-815-11	METAL CHIP	330	5%	1/10W
R8844	1-215-469-00	METAL	100K	1%	1/4W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8845	1-215-469-00	METAL	100K	1%	1/4W
R8848	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8849	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8853	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8854	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8855	1-216-864-11	SHORT CHIP	0		
R8856	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8857	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8858	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8861	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8862	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8863	1-216-864-11	SHORT CHIP	0		

< TRANSFORMER >

T8100	1-433-489-31	TRANSFORMER, FERRITE (HDT)
T8101	1-433-489-31	TRANSFORMER, FERRITE (HDT)
T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT

D1 Board, Variant Parts KV-32HQ100

< CAPACITOR >

C8110	1-162-131-11	CERAMIC	220PF	10.00%	2KV
C8111	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C8119	1-117-662-11	FILM	0.18UF	5.00%	250V
C8208	NOT FITTED				
C8209	NOT FITTED				
C8402	NOT FITTED				
C8403	NOT FITTED				
C8404	NOT FITTED				
C8504	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C8607	NOT FITTED				
C8815	NOT FITTED				

< DIODE >

D8205	NOT FITTED
D8206	NOT FITTED
D8401	NOT FITTED
D8402	NOT FITTED
D8603	NOT FITTED
D8604	NOT FITTED
D8807	NOT FITTED

< COIL >

L8401	NOT FITTED

< PROTECTOR MODULE >

PS8401	NOT FITTED

REF.NO.	PART.NO	DESCRIPTION	REMARK

< TRANSISTOR >

Q8106	8-729-047-59	TRANSISTOR STP5NB40FP
Q8201	NOT FITTED	
Q8401	NOT FITTED	
Q8405	NOT FITTED	
Q8406	NOT FITTED	
Q8509	NOT FITTED	
Q8510	NOT FITTED	
Q8601	NOT FITTED	

< RESISTOR >

R8101	1-216-460-71	METAL OXIDE	3.9K	5%	2W
R8104	1-243-614-71	METAL OXIDE	4.7K	5%	3W
R8113	NOT FITTED				
R8114	NOT FITTED				
R8118	1-247-807-31	CARBON	100	5%	1/4W
R8213	NOT FITTED				
R8214	1-216-367-11	METAL OXIDE	0.68	5%	2W
R8215	NOT FITTED				
R8216	NOT FITTED				
R8217	NOT FITTED				
R8218	NOT FITTED				
R8219	NOT FITTED				
R8220	NOT FITTED				
R8221	NOT FITTED				
R8222	NOT FITTED				
R8223	NOT FITTED				
R8335	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8345	NOT FITTED				
R8347	NOT FITTED				
R8404	NOT FITTED				
R8514	NOT FITTED				
R8515	NOT FITTED				
R8516	NOT FITTED				
R8517	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8606	NOT FITTED				
R8607	NOT FITTED				
R8608	NOT FITTED				
R8609	NOT FITTED				
R8813	NOT FITTED				
R8814	NOT FITTED				
R8815	NOT FITTED				
R8859	NOT FITTED				
R8860	NOT FITTED				

< TRANSFORMER >

T8805	NOT FITTED

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

D1 Board, Variant Parts 36HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8110	1-162-134-11	CERAMIC 470PF	10.00% 2KV
C8111	1-104-332-11	CERAMIC 470PF	10.00% 2KV
C8119	1-117-663-11	FILM 0.22UF	5.00% 250V
C8208	1-104-665-11	ELECT 100UF	20.00% 25V
C8209	1-104-665-11	ELECT 100UF	20.00% 25V
C8402	1-130-959-91	FILM 0.047UF	5.00% 400V
C8403	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8404	1-136-177-00	FILM 1UF	5.00% 50V
C8504	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8607	1-126-964-11	ELECT 10UF	20.00% 50V
C8815	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D8205	8-719-081-97	DIODE MMDL914T1	
D8206	8-719-081-97	DIODE MMDL914T1	
D8401	8-719-110-41	DIODE RD15ESB2	
D8402	8-719-991-33	DIODE 1SS133T-77	
D8603	8-719-991-33	DIODE 1SS133T-77	
D8604	8-719-991-33	DIODE 1SS133T-77	
D8807	8-719-988-61	DIODE 1SS355TE-17	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L8401	1-406-987-11	INDUCTOR 4.7MH	

< PROTECTOR MODULE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
PS8401 △	1-532-841-21	IC LINK 1.6A	PRF 1600

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8106	8-729-025-19	TRANSISTOR IRFI740G	
Q8201	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q8401	8-729-025-19	TRANSISTOR IRFI740G	
Q8405	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8406	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8509	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8510	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8601	8-729-010-29	TRANSISTOR MSD601-RST1	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8101	1-215-895-71	METAL OXIDE 3.3K	5% 2W
R8104	1-215-895-71	METAL OXIDE 3.3K	5% 2W
R8113	1-216-853-11	METAL CHIP 470K	5% 1/10W
R8114	1-216-845-11	METAL CHIP 100K	5% 1/10W
R8118	1-249-401-11	CARBON 47	5% 1/4W
R8213	1-216-371-00	METAL OXIDE 1.5	5% 2W
R8214	1-243-951-71	METAL OXIDE 0.68	5% 2W
R8215	1-218-847-11	METAL CHIP 1K	0.5% 1/10W
R8216	1-215-459-00	METAL 39K	1% 1/4W
R8217	1-215-459-00	METAL 39K	1% 1/4W
R8218	1-215-469-00	METAL 100K	1% 1/4W
R8219	1-215-469-00	METAL 100K	1% 1/4W
R8220	1-216-837-11	METAL CHIP 22K	5% 1/10W
R8221	1-216-833-11	METAL CHIP 10K	5% 1/10W
R8222	1-215-469-00	METAL 100K	1% 1/4W
R8223	1-215-469-00	METAL 100K	1% 1/4W
R8335	1-218-869-11	METAL CHIP 8.2K	0.5% 1/10W
R8345	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R8347	1-218-883-11	METAL CHIP 33K	0.5% 1/10W
R8404	1-216-805-11	METAL CHIP 47	5% 1/10W
R8514	1-216-833-11	METAL CHIP 10K	5% 1/10W
R8515	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R8516	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R8517	NOT FITTED		
R8606	1-216-837-11	METAL CHIP 22K	5% 1/10W
R8607	1-216-837-11	METAL CHIP 22K	5% 1/10W
R8608	1-216-845-11	METAL CHIP 100K	5% 1/10W
R8609	1-216-837-11	METAL CHIP 22K	5% 1/10W
R8813	1-216-864-11	SHORT CHIP 0	
R8814	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R8815	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R8859	1-216-833-11	METAL CHIP 10K	5% 1/10W
R8860	1-218-881-11	METAL CHIP 27K	0.5% 1/10W

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T8805	1-429-741-11	TRANSFORMER, DRIVE	

* A-1405-540-A D2 Board, Complete KV-32HQ100
* A-1405-509-A D2 Board, Complete KV-36HQ100

D2 Board, Common Parts

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6802	1-130-483-00	MYLAR 0.01UF	5.00% 50V
C6803	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C6804	1-136-813-11	FILM 680PF	5.00% 100V
C6805	1-126-964-11	ELECT 10UF	20.00% 50V
C6806	1-104-662-91	ELECT 22UF	20.00% 25V
C6807	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6808	1-126-947-11	ELECT 47UF	20.00% 35V
C6809	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C6810	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6811	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6812	1-135-946-22	FILM 47000PF	3% 800V
C6813	1-126-967-11	ELECT 47UF	20.00% 50V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6814	1-126-947-11	ELECT 47UF	20.00% 35V
C6815	1-130-483-00	MYLAR 0.01UF	5.00% 50V
C6816	1-126-964-11	ELECT 10UF	20.00% 50V
C6820	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6821	1-126-964-11	ELECT 10UF	20.00% 50V
C6822	1-126-966-11	ELECT 33UF	20.00% 50V
C6823	1-126-933-11	ELECT 100UF	20.00% 16V
C6824	1-113-610-11	ELECT(BLOCK) 220UF	20% 250V
C6825	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6826	1-126-969-11	ELECT 220UF	20.00% 50V
C6827	1-137-150-11	FILM 0.01UF	5.00% 100V
C6834	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6835	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C6836	1-136-497-81	FILM 0.1UF	5.00% 50V
C6837	1-136-103-00	FILM 0.1UF	5.00% 200V
C6840	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6842	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C6843	1-135-945-22	FILM 10000PF	3% 800V
C6848	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6849	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C6850	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6851	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6852	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6853	1-126-933-11	ELECT 100UF	20.00% 16V
C8929	1-107-960-11	ELECT 4.7UF	20.00% 250V
C8930	1-136-535-91	FILM 0.0018UF	5.00% 630V
C8932	1-136-205-11	MYLAR 0.022UF	5.00% 630V
C8939	1-162-129-00	CERAMIC 150PF	10.00% 2KV
C8944	1-137-150-11	FILM 0.01UF	5.00% 100V
C8945	1-126-947-11	ELECT 47UF	20.00% 35V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN6800	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN6801	* 1-691-772-11	PLUG (MICRO CONNECTOR) 10P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6800	8-719-052-90	DIODE D1NL40-TA2	
D6801	8-719-110-41	DIODE RD15ESB2	
D6802	8-719-110-41	DIODE RD15ESB2	
D6803	8-719-911-19	DIODE 1SS119-25	
D6804	8-719-081-97	DIODE MMDL914T1	
D6806	8-719-109-85	DIODE RD5.1ESB2	
D6811	8-719-911-19	DIODE 1SS119-25	
D6813	8-719-911-19	DIODE 1SS119-25	
D6814	8-719-982-21	DIODE MTZJ-30C	
D6815	8-719-911-19	DIODE 1SS119-25	
D6816	8-719-110-41	DIODE RD15ESB2	
D6817	8-719-063-73	DIODE D1NL20U-TR	
D6820	8-719-921-63	DIODE MTZJ-7.5B	
D6821	8-719-110-49	DIODE RD18ESB2	
D6822	8-719-063-73	DIODE D1NL20U-TR	
D6823	8-719-911-19	DIODE 1SS119-25	
D6824	8-719-911-19	DIODE 1SS119-25	
D6825	8-719-911-19	DIODE 1SS119-25	
D6828	8-719-911-19	DIODE 1SS119-25	
D8919	8-719-948-45	DIODE ERA22-08	
D8927	8-719-991-33	DIODE 1SS133T-77	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB6801	1-412-911-11	FERRITE 0UH	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC6801	8-759-700-07	IC NJM2903M	
IC6802	8-759-701-01	IC NJM2904M	
IC6803	8-759-462-09	IC TLV431AIDBV	
IC6807	8-759-586-17	IC TL1431CZ-AP	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L6802	1-419-658-41	INDUCTOR 107UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q6801	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6802	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6804	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6805	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6808	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6813	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6814	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q6815	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6816	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q6817	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q8909	6-550-012-01	TRANSISTOR STP5NB40(033Y)	
Q8918	1-801-806-11	TRANSISTOR DTC144EKA	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
JR8953	1-216-864-11	SHORT CHIP 0	
R6801	1-216-841-11	METAL CHIP 47K	5% 1/10W
R6802	1-216-849-11	METAL CHIP 220K	5% 1/10W
R6803	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R6805	1-215-481-00	METAL 330K	1% 1/4W
R6806	1-215-481-00	METAL 330K	1% 1/4W
R6807	1-215-481-00	METAL 330K	1% 1/4W
R6808	1-211-981-11	METAL CHIP 33	0.5% 1/10W
R6809	1-218-823-11	METAL CHIP 100	0.5% 1/10W
R6810	1-249-417-11	CARBON 1K	5% 1/4W
R6811 ⚠	1-202-933-61	FUSIBLE 0.1	10% 1/2W

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R6812	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R6813	1-249-393-11	CARBON	10	5%	1/4W
R6814	1-249-393-11	CARBON	10	5%	1/4W
R6815	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6816	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6817	1-243-979-21	METAL OXIDE	0.1	5%	2W
R6818	1-249-389-11	CARBON	4.7	5%	1/4W
R6820	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6821	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6822	1-216-809-11	METAL CHIP	100	5%	1/10W
R6823	1-247-843-11	CARBON	3.3K	5%	1/4W
R6828	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R6829	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6832	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6834	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6835	1-215-423-00	METAL	1.2K	1%	1/4W
R6836	1-215-441-00	METAL	6.8K	1%	1/4W
R6839	1-215-439-00	METAL	5.6K	1%	1/4W
R6844	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R6845	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R6846	1-218-868-11	METAL CHIP	7.5K	0.5%	1/10W
R6847	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R6848	1-216-817-11	METAL CHIP	470	5%	1/10W
R6852	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6865	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6867	1-216-809-11	METAL CHIP	100	5%	1/10W
R6868	1-216-797-11	METAL CHIP	10	5%	1/10W
R6869	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6870	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6872	1-249-377-11	CARBON	0.47	5%	1/4W
R6873	1-249-431-11	CARBON	15K	5%	1/4W
R6874	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R6875	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R6876	1-215-485-00	METAL	470K	1%	1/4W
R6877	1-215-485-00	METAL	470K	1%	1/4W
R6878	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6880	1-219-751-51	METAL	47K	5%	1/2W
R6881	1-219-749-51	METAL	10K	5%	1/2W
R6882	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6883	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R6884	1-218-874-11	METAL CHIP	13K	0.5%	1/10W
R6885	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6887	1-249-411-11	CARBON	330	5%	1/4W
R6895	1-216-809-11	METAL CHIP	100	5%	1/10W
R6896	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6897	1-216-853-11	METAL CHIP	470K	5%	1/10W
R6899	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8957	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R8988	1-260-123-11	CARBON	100K	5%	1/2W
R8989	1-249-429-11	CARBON	10K	5%	1/4W
R8990	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8991	1-216-837-11	METAL CHIP	22K	5%	1/10W

< RESISTOR VARIABLE >

REF.NO.	PART.NO	DESCRIPTION
RV6800	1-241-763-11	RES, ADJ, CERMET 4.7K

< SPARK GAP >

REF.NO.	PART.NO	DESCRIPTION
SG6800	1-517-499-21	GAP, SPARK

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION
T6800 ⚠	8-598-871-11	FBT ASSY NX-6020//Z
T8901	1-437-690-11	TRANSFORMER, FERRITE (DFT)

D2 Board, Variant Parts 32HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION
C8938	NOT FITTED	

< IC >

REF.NO.	PART.NO	DESCRIPTION
IC6800	8-759-670-30	IC MCZ3001D

< COIL >

REF.NO.	PART.NO	DESCRIPTION	
L8901	1-406-675-11	INDUCTOR	4.7MH

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
R6825	1-218-899-11	METAL CHIP	150K	0.5%	1/16W
R6827	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R6837	1-215-439-00	METAL	5.6K	1%	1/4W
R6838	1-215-439-00	METAL	5.6K	1%	1/4W
R6840	1-215-439-00	METAL	5.6K	1%	1/4W
R6841	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R6843	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R8949	1-243-617-71	METAL OXIDE	8.2K	5%	3W
R8950	1-243-617-71	METAL OXIDE	8.2K	5%	3W
R8951	1-243-617-71	METAL OXIDE	8.2K	5%	3W
R8952	1-243-617-71	METAL OXIDE	8.2K	5%	3W
R8954	1-260-123-11	METAL OXIDE	100K	5%	1/2W
R8955	1-260-123-11	METAL OXIDE	100K	5%	1/2W
R8956	1-260-123-11	METAL OXIDE	100K	5%	1/2W
R8998	1-243-617-71	METAL OXIDE	8.2K	5%	3W

D2 Board, Variant Parts 36HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION		REMARK
C8938	1-162-129-51	CERAMIC	150PF	10.00% 2KV

< IC >

REF.NO.	PART.NO	DESCRIPTION
IC6800	8-759-670-30	IC MCZ3001D

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

< COIL >

REF.NO.	PART.NO	DESCRIPTION		REMARK
L8901	1-406-674-11	INDUCTOR	3.3MH	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION		REMARK
R6825	NOT FITTED			
R6827	1-218-889-11	METAL CHIP	56K	0.5% 1/10W
R6837	1-215-441-00	METAL	6.8K	1% 1/4W
R6838	1-215-441-00	METAL	6.8K	1% 1/4W
R6840	1-215-441-00	METAL	6.8K	1% 1/4W
R6841	1-218-841-11	METAL CHIP	560	0.5% 1/10W
R6843	1-218-847-11	METAL CHIP	1K	0.5% 1/10W
R8949	1-243-614-71	METAL OXIDE	4.7K	5% 3W
R8950	1-243-616-71	METAL OXIDE	6.8K	5% 3W
R8951	1-243-614-71	METAL OXIDE	4.7K	5% 3W
R8952	1-243-614-71	METAL OXIDE	4.7K	5% 3W
R8954	1-243-719-71	METAL OXIDE	33K	5% 1W
R8955	1-243-719-71	METAL OXIDE	33K	5% 1W
R8956	1-243-725-71	METAL OXIDE	100K	5% 1W
R8998	1-243-614-71	METAL OXIDE	4.7K	5% 3W

* A-1405-704-A G Board, Complete 32HQ100
* A-1405-703-A G Board, Complete 36HQ100

G Board, Common Parts

REF.NO.	PART.NO	DESCRIPTION		REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)		

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION		REMARK
C6001 △	1-165-439-11	FILM	0.47UF	275V
C6002 △	1-165-439-11	FILM	0.47UF	275V
C6003 △	1-119-900-51	CERAMIC	2200PF	20.00% 250V
C6004 △	1-119-900-51	CERAMIC	2200PF	20.00% 250V
C6006	1-117-753-11	ELECT(BLOCK)	470UF	20.00% 450V
C6007	1-126-964-11	ELECT	10UF	20.00% 50V
C6008	1-126-963-11	ELECT	4.7UF	20.00% 50V
C6010	1-136-497-81	FILM	0.1UF	5.00% 50V
C6011	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6012 △	1-104-571-91	CERAMIC	0.0015UF	10.00% 2KV
C6013 △	1-104-571-91	CERAMIC	0.0015UF	10.00% 2KV
C6014	1-113-610-11	ELECT(BLOCK)	220UF	20% 250V
C6015	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6016 △	1-104-571-91	CERAMIC	0.0015UF	10.00% 2KV
C6017 △	1-104-571-91	CERAMIC	0.0015UF	10.00% 2KV
C6018	1-126-949-11	ELECT	220UF	20.00% 35V
C6019	1-164-645-11	CERAMIC	1000PF	10.00% 500V
C6020	1-135-946-22	FILM	47000PF	3% 800V
C6021	1-164-645-11	CERAMIC	1000PF	10.00% 500V
C6022	1-126-963-11	ELECT	4.7UF	20.00% 50V
C6023	1-110-626-11	ELECT	330UF	20.00% 160V
C6024	1-164-625-11	CERAMIC	680PF	10.00% 500V
C6025	1-164-625-11	CERAMIC	680PF	10.00% 500V
C6026	1-164-625-11	CERAMIC	680PF	10.00% 500V
C6027	1-164-625-11	CERAMIC	680PF	10.00% 500V
C6028	1-100-197-11	ELECT	15000UF	20% 16V
C6029	1-100-197-11	ELECT	15000UF	20% 16V
C6030	1-126-944-11	ELECT	3300UF	20.00% 25V
C6031	1-126-944-11	ELECT	3300UF	20.00% 25V
C6032 △	1-113-927-11	CERAMIC	0.01UF	250V
C6033	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6034	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00% 50V
C6035	1-136-497-81	FILM	0.1UF	5.00% 50V
C6036	1-136-479-11	FILM	0.001UF	5.00% 100V
C6037	1-126-947-11	ELECT	47UF	20.00% 35V
C6038	1-164-645-11	CERAMIC	1000PF	10.00% 500V
C6039	1-125-891-11	CERAMIC CHIP	0.47UF	10.00% 10V
C6040	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C6045	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6102	1-126-943-11	ELECT	2200UF	20.00% 25V
C6103	1-126-971-11	ELECT	470UF	20.00% 50V
C6105	1-126-964-11	ELECT	10UF	20.00% 50V
C6106	1-126-964-11	ELECT	10UF	20.00% 50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION		REMARK
CN6001 △	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		
CN6002 △	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		
CN6003 △	* 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
CN6004 △	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		
CN6005	* 1-817-037-61	PLUG CONNECTOR 6P		
CN6006	* 1-564-516-11	PLUG, CONNECTOR 13P		
CN6007 △	* 1-580-843-11	PIN, CONNECTOR (POWER)		
CN6008	1-816-982-71	PLUG, CONNECTOR 5P		
CN6010	* 1-564-511-11	PLUG, CONNECTOR 8P		
CN6013	* 1-816-974-51	PLUG, CONNECTOR 3P		
CN6014	1-695-915-11	TAB (CONTACT)		
CN6015	1-695-915-11	TAB (CONTACT)		

< DIODE >

REF.NO.	PART.NO	DESCRIPTION		REMARK
D6001	6-500-067-01	DIODE	GSIB460L/45	
D6002	8-719-982-26	DIODE	MTZJ-33B	
D6004	8-719-979-64	DIODE	UF4005PKG23	
D6008	8-719-063-70	DIODE	D1NL20U	
D6009	8-719-110-41	DIODE	RD15ESB2	
D6010	8-719-085-24	DIODE	FBIU4D7M1-B	
D6011	8-719-033-12	DIODE	S3L40F	
D6012	8-719-033-12	DIODE	S3L40F	
D6014	8-719-083-92	DIODE	YG802C09RF122	
D6015	8-719-085-10	DIODE	FMB-24LF654	
D6016	8-719-312-47	DIODE	RBA-406B	
D6035	8-719-510-02	DIODE	D1NS4	

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6036	8-719-081-97	DIODE MMDL914T1	
D6101	8-719-081-97	DIODE MMDL914T1	
D6102	8-719-511-40	DIODE S1VB40	
D6103	8-719-081-97	DIODE MMDL914T1	
D6104	8-719-081-97	DIODE MMDL914T1	
D6105	8-719-081-97	DIODE MMDL914T1	
D6106	8-719-081-97	DIODE MMDL914T1	
D6107	8-719-081-97	DIODE MMDL914T1	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB6001	1-410-397-21	FERRITE 1.1UH	
FB6002	1-410-397-21	FERRITE 1.1UH	
FB6003	1-410-397-21	FERRITE 1.1UH	
FB6004	1-410-397-21	FERRITE 1.1UH	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC6001	8-754-670-30	IC MCZ3001D	
IC6003	8-749-016-19	IC SE135N-LF4	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L6001	1-406-663-21	INDUCTOR 47UH	
L6002	1-412-521-31	INDUCTOR 4.7UH	
L6003	1-412-521-31	INDUCTOR 4.7UH	
L6006	1-406-659-11	INDUCTOR 10UH	
L6007	1-412-525-31	INDUCTOR 10UH	
L6008	1-406-670-11	INDUCTOR 680UH	

< PHOTOCOUPLER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
PH6001 △	8-749-016-21	IC TCET1103G	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6006	6-550-698-01	TRANSISTOR SPA08N50C3-E8152	
Q6007	6-550-698-01	TRANSISTOR SPA08N50C3-E8152	
Q6101	8-729-029-56	TRANSISTOR DTA144ESA	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6103	8-729-029-56	TRANSISTOR DTA144ESA	
Q6104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6105	8-729-010-29	TRANSISTOR MSD601-RST1	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
JR6002	1-216-295-91	SHORT CHIP 0	
JR6004	1-216-295-91	SHORT CHIP 0	
R6003 △	1-202-933-61	FUSIBLE 0.1 10% 1/2W	
R6004 △	1-205-998-11	CEMENTED 1 5% 10W	
R6005 △	1-205-998-11	CEMENTED 1 5% 10W	
R6006 △	1-205-998-11	CEMENTED 1 5% 10W	
R6007	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6008	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6009	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R6010	1-215-481-00	METAL 330K 1% 1/4W	
R6013 △	1-218-265-11	METAL 8.2M 5% 1W	
R6014	1-243-624-21	METAL OXIDE 33K 5% 3W	
R6015	1-208-757-11	METAL CHIP 91 0.5% 1/10W	
R6021	1-243-946-21	METAL OXIDE 0.27 5% 2W	
R6022	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R6024	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
R6028	1-249-389-11	CARBON 4.7 5% 1/4W	
R6029	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R6030	1-216-817-11	METAL CHIP 470 5% 1/10W	
R6032	1-249-417-11	CARBON 1K 5% 1/4W	
R6033	1-215-481-00	METAL 330K 1% 1/4W	
R6035	1-260-083-11	CARBON 47 5% 1/2W	
R6036	1-216-817-11	METAL CHIP 470 5% 1/10W	
R6037	1-249-405-11	CARBON 100 5% 1/4W	
R6038	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6039	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6040	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R6042	1-216-295-91	SHORT CHIP 0	
R6045	1-216-639-11	METAL CHIP 330 0.5% 1/10W	
R6047	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R6048	1-215-481-00	METAL 330K 1% 1/4W	
R6049	1-208-805-11	METAL CHIP 9.1K 0.5% 1/10W	
R6050	1-208-758-11	METAL CHIP 100 0.5% 1/10W	
R6054	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
R6056	1-216-295-91	SHORT CHIP 0	
R6101	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6102	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6103	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6104	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6106	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6107	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6108	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6109	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6110	1-216-821-11	METAL CHIP 1K 5% 1/10W	

< RELAY >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RY6001 △	1-755-395-11	RELAY (AC POWER)	
RY6002 △	1-755-389-11	RELAY (AC POWER)	

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T6001 △	1-431-402-11	TRANSFORMER, LINE FILTER	
T6002 △	1-437-850-12	TRANSFORMER, CONVERTER (PIT)	
T6003 △	1-431-402-11	TRANSFORMER, LINE FILTER	
T6101 △	1-437-483-11	TRANSFORMER, STANDBY	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

< THERMISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TH6002 ⚠	1-804-650-11	THERMISTOR, POSITIVE	

G Board, Variant Parts 32HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6005	1-216-965-91	ELECT 22UF	20.00% 50V

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6006	8-719-081-97	DIODE MMDL914T1	
D6007	8-719-081-97	DIODE MMDL914T1	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q6005	8-729-029-56	TRANSISTOR DTA144ESA	
Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R6016	1-216-821-11	METAL CHIP 1K 5%	1/10W
R6017	1-216-833-11	METAL CHIP 10K 5%	1/10V
R6018	1-247-895-91	CARBON 470K 5%	1/4W
R6019	1-247-891-00	CARBON 330K 5%	1/4W
R6020	1-216-820-11	METAL CHIP 820 5%	1/10W
R6057	1-208-798-11	METAL CHIP 4.7K 0.5%	1/10W

G Board, Variant Parts 36HQ100

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6005	NOT FITTED		

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6006	NOT FITTED		
D6007	NOT FITTED		

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q6005	NOT FITTED		
Q6010	NOT FITTED		

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R6016	NOT FITTED		
R6017	NOT FITTED		
R6018	NOT FITTED		
R6019	NOT FITTED		
R6020	NOT FITTED		
R6057	NOT FITTED		

* A-1405-508-A VM Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C7400	1-107-883-11	ELECT 330UF	20.00% 16V
C7401	1-126-935-11	ELECT 470UF	20.00% 16V
C7402	1-137-150-11	FILM 0.01UF	5.00% 100V
C7403	1-104-655-91	ELECT 470UF	20.00% 6.3V
C7405	1-126-933-11	ELECT 100UF	20.00% 16V
C7406	1-104-655-91	ELECT 470UF	20.00% 6.3V
C7407	1-107-364-11	MYLAR 0.01UF	10.00% 200V
C7408	1-107-364-11	MYLAR 0.01UF	10.00% 200V
C7409	1-107-649-11	ELECT 2.2UF	20.00% 250V
C7410	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C7411	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C7412	1-126-935-11	ELECT 470UF	20.00% 16V
C7413	1-126-935-11	ELECT 470UF	20.00% 16V
C7414	1-107-652-11	ELECT 10UF	20.00% 250V
C7415	1-107-363-91	MYLAR 0.0068UF	10.00% 200V
C7417	1-102-514-11	CERAMIC 22PF	5.00% 50V
C7418	1-101-880-00	CERAMIC 47PF	5.00% 50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN7401	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN7402	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN7403	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN7404	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
CN7405	* 1-564-506-11	PLUG, CONNECTOR 3P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D7400	8-719-991-33	DIODE 1SS133T-77	
D7401	8-719-510-02	DIODE D1NS4	
D7402	1-535-303-00	LEAD, JUMPER (5.0MM)	
D7403	8-719-991-33	DIODE 1SS133T-77	
D7404	8-719-991-33	DIODE 1SS133T-77	
D7405	8-719-924-11	DIODE MTZJ-T-77-22	
D7406	8-719-924-11	DIODE MTZJ-T-77-22	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB7400	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB7401	1-535-303-00	LEAD, JUMPER (5.0MM)	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L7400	1-410-784-41	INDUCTOR 0.18UH	
L7401	1-414-930-21	INDUCTOR 2.2UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q7400	8-729-119-78	TRANSISTOR 2SC2785-HFE	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q7401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q7402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q7403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q7404	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7405	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7406	8-729-045-05	TRANSISTOR 2SA2005	
Q7407	8-729-045-04	TRANSISTOR 2SC5511	
Q7408	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R7401	1-247-843-11	CARBON 3.3K 5%	1/4W
R7402	1-249-413-11	CARBON 470 5%	1/4W
R7403	1-249-393-11	CARBON 10 5%	1/4W
R7404	1-249-420-11	CARBON 1.8K 5%	1/4W
R7405	1-249-425-11	CARBON 4.7K 5%	1/4W
R7406	1-249-425-11	CARBON 4.7K 5%	1/4W
R7407	1-249-399-11	CARBON 33 5%	1/4W
R7408	1-247-807-31	CARBON 100 5%	1/4W
R7409	1-249-409-11	CARBON 220 5%	1/4W
R7410	1-249-401-11	CARBON 47 5%	1/4W
R7411	1-249-401-11	CARBON 47 5%	1/4W
R7412	1-249-429-11	CARBON 10K 5%	1/4W
R7413	1-249-414-11	CARBON 560 5%	1/4W
R7414	1-249-432-11	CARBON 18K 5%	1/4W
R7415	1-260-316-51	CARBON 100 5%	1/2W
R7416	1-249-388-11	CARBON 3.9 5%	1/4W
R7417	1-249-432-11	CARBON 18K 5%	1/4W
R7418	1-249-414-11	CARBON 560 5%	1/4W
R7419	1-249-421-11	CARBON 2.2K 5%	1/4W
R7420	1-249-421-11	CARBON 2.2K 5%	1/4W
R7421	1-249-386-11	CARBON 2.7 5%	1/4W
R7422	1-249-405-11	CARBON 100 5%	1/4W
R7423	1-215-915-11	METAL OXIDE 470 5%	3W
R7425	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7427	1-249-401-11	CARBON 47 5%	1/4W
R7428	1-249-413-11	CARBON 470 5%	1/4W
R7429	1-249-413-11	CARBON 470 5%	1/4W
R7430	1-249-417-11	CARBON 1K 5%	1/4W
R7432	1-249-415-11	CARBON 680 5%	1/4W
R7433	1-249-400-11	CARBON 39 5%	1/4W
R7434	1-249-395-11	CARBON 15 5%	1/4W

* A-1405-851-A F Board, Complete 32HQ100
* A-1405-512-A F Board, Complete 36HQ100

F Board, Common Parts

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CAPACITOR >	
C500	1-126-969-11	ELECT 220UF	20.00% 50V
		< CONNECTOR >	
CN6300 ⚠ *	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6301	1-695-915-11	TAB (CONTACT)	
CN6302 ⚠ *	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
		< DIODE >	
D500	8-719-109-89	DIODE RD5.6ESB2	
D501	6-500-166-01	DIODE L-59SRSGC-CC-01	
D502	8-719-109-89	DIODE RD5.6ESB2	
		< FUSE >	
F6300 ⚠	1-576-232-21	FUSE (H.B.C.) 5A/250V	
FH6300 ⚠	1-533-725-11	FUSE HOLDER	
		< IC >	
IC500	8-742-180-30	HYB IC SBX3081-51(30)	
		< TRANSISTOR >	
Q500	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R500	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R501	1-216-813-11	METAL CHIP 220 5%	1/10W
R502	1-216-809-11	METAL CHIP 100 5%	1/10W
R503	1-216-841-11	METAL CHIP 47K 5%	1/10W
R504	1-216-813-11	METAL CHIP 220 5%	1/10W
R505	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R506	1-216-815-11	METAL CHIP 330 5%	1/10W
R6300 ⚠	1-202-719-00	SOLID 1M 10%	1/2W
		< SWITCH >	
S6300 ⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	

F Board, Variant parts 32HQ100

REF.NO.	PART.NO	DESCRIPTION	REMARK
A501	NOT FITTED		
		< CAPACITOR >	
C6300	NOT FITTED		
		< CONNECTOR >	
CN500 *	1-564-507-11	PLUG, CONNECTOR 4P	
		< VARISTOR >	
VD6300 ⚠	1-804-995-11	VARISTOR	

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

F Board, Variant parts 36HQ100

REF.NO.	PART.NO	DESCRIPTION	REMARK
A501	4-205-711-01	HOLDER, LED	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6300	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN500	* 1-564-519-11	PLUG, CONNECTOR 4P	

< VARISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
VD6300 △	1-803-830-11	VARISTOR (ERZV14D621)	

* A-1405-513-A MS3 Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C705	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C706	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C708	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C709	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C710	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C712	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C713	1-126-390-11	ELECT CHIP 22UF	20.00% 6.3V
C714	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C715	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C716	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C717	1-126-390-11	ELECT CHIP 22UF	20.00% 6.3V
C719	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C720	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN701	* 1-816-402-12	CONNECTOR, MEMORY STICK	
CN702	* 1-794-959-21	PIN, CONNECTOR (PWB, PRINT)20P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D701	8-719-421-69	DIODE MA133	
D702	8-719-421-69	DIODE MA133	
D703	8-719-421-69	DIODE MA133	
D704	8-719-421-69	DIODE MA133	
D705	8-719-421-69	DIODE MA133	
D706	8-719-421-69	DIODE MA133	
D707	8-719-421-69	DIODE MA133	
D708	8-719-421-69	DIODE MA133	
D709	8-719-064-07	DIODE SML-310LTT86	
D710	8-719-083-58	DIODE UDZSTE-173.9B	
D711	8-719-083-58	DIODE UDZSTE-173.9B	
D712	8-719-421-69	DIODE MA133	
D713	8-719-421-69	DIODE MA133	
D714	8-719-421-69	DIODE MA133	
D715	8-719-421-69	DIODE MA133	
D716	8-719-421-69	DIODE MA133	
D717	8-719-421-69	DIODE MA133	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB701	1-414-921-11	FERRITE 0UH	
FB702	1-414-921-11	FERRITE 0UH	
FB704	1-414-921-11	FERRITE 0UH	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC701	8-759-639-86	IC SN65LVDS32DR	
IC702	6-701-763-11	IC DS90LV017ATMX	
IC703	8-759-698-08	IC SN74CBTLV1G125DCKR	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L701	1-419-370-21	INDUCTOR 0UH	
L702	1-419-370-21	INDUCTOR 0UH	
L703	1-419-370-21	INDUCTOR 0UH	
L704	1-419-370-21	INDUCTOR 0UH	
L705	1-419-370-21	INDUCTOR 0UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q701	8-729-010-05	TRANSISTOR MSB709-RT1	
Q702	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q703	8-729-010-05	TRANSISTOR MSB709-RT1	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R701	1-216-801-11	METAL CHIP 22 5%	1/10W
R702	1-216-801-11	METAL CHIP 22 5%	1/10W
R704	1-216-801-11	METAL CHIP 22 5%	1/10W
R705	1-218-692-11	METAL CHIP 1K 0.5%	1/10W
R706	1-216-809-11	METAL CHIP 100 5%	1/10W
R707	1-216-809-11	METAL CHIP 100 5%	1/10W
R708	1-216-809-11	METAL CHIP 100 5%	1/10W
R709	1-216-809-11	METAL CHIP 100 5%	1/10W
R710	1-216-803-11	METAL CHIP 33 5%	1/10W
R721	1-216-821-11	METAL CHIP 1K 5%	1/10W
R722	1-216-809-11	METAL CHIP 100 5%	1/10W
R724	1-216-833-11	METAL CHIP 10K 5%	1/10W
R725	1-216-845-11	METAL CHIP 100K 5%	1/10W
R726	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R728	1-216-864-11	SHORT CHIP 0	
R731	1-216-864-11	SHORT CHIP 0	

* A-1405-514-A H Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C800	1-102-074-00	CERAMIC 0.001UF	10.00% 50V
C801	1-102-074-00	CERAMIC 0.001UF	10.00% 50V
C802	1-102-074-00	CERAMIC 0.001UF	10.00% 50V
C803	1-102-074-00	CERAMIC 0.001UF	10.00% 50V
C806	1-126-960-11	ELECT 1UF	20.00% 50V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
C807	1-126-960-11	ELECT	1UF		20.00% 50V
C808	1-102-106-00	CERAMIC	100PF		10.00% 50V
C809	1-102-106-00	CERAMIC	100PF		10.00% 50V
C811	1-102-074-00	CERAMIC	0.001UF		10.00% 50V
C812	1-102-074-00	CERAMIC	0.001UF		10.00% 50V
		< CONNECTOR >			
CN800	1-779-947-11	TERMINAL BLOCK, S			
CN807	* 1-564-526-11	PLUG, CONNECTOR 11P			
CN809	* 1-564-522-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D802	8-719-929-15	DIODE HZS9.1NB2			
D803	8-719-929-15	DIODE HZS9.1NB2			
D804	8-719-109-97	DIODE RD6.8ESB2			
D805	8-719-109-97	DIODE RD6.8ESB2			
		< SOCKET >			
J800	1-750-264-11	JACK			
		< COIL >			
L800	1-535-303-00	LEAD, JUMPER	(5.0MM)		
L801	1-535-303-00	LEAD, JUMPER	(5.0MM)		
L802	1-408-603-31	INDUCTOR	10UH		
L803	1-408-603-31	INDUCTOR	10UH		
L804	1-410-119-11	INDUCTOR	1MH		
		< RESISTOR >			
R803	1-249-406-11	CARBON	120	5%	1/4W
R804	1-249-406-11	CARBON	120	5%	1/4W
R805	1-247-895-91	CARBON	470K	5%	1/4W
R806	1-247-895-91	CARBON	470K	5%	1/4W
R809	1-247-895-91	CARBON	470K	5%	1/4W
R810	1-247-895-91	CARBON	470K	5%	1/4W
R815	1-249-406-11	CARBON	120	5%	1/4W
R816	1-249-406-11	CARBON	120	5%	1/4W
R817	1-247-807-31	CARBON	100	5%	1/4W
R818	1-247-807-31	CARBON	100	5%	1/4W
		< SWITCH >			
S800	1-762-816-11	SWITCH, TACTILE			
S801	1-762-816-11	SWITCH, TACTILE			
S802	1-762-816-11	SWITCH, TACTILE			

MISCELLANEOUS

REF.NO.	PART.NO	DESCRIPTION	REMARK
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
	1-825-177-11	LOUDSPEAKER (4.2X24CM)	
	1-542-437-11	SPEAKER (2CM)	
⚠	1-823-853-11	CORD, POWER	
	1-424-855-11	COIL, CHOKE 29MMH	
	1-825-213-21	LOUDSPEAKER (10CM)	
	8-598-536-20	FRONT END BTF-EF412 (KV-32/36HQ100B)	
	8-598-534-10	FRONT END BTF-EC412 (KV-32/36HQ100E/K)	
⚠	1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4)	
⚠	8-735-079-05	CRT (W76LLZ060X)(KV-32HQ100B/E/K)	
⚠	8-735-115-05	CRT (W86LXX000X)(KV-36HQ100B/E/K)	
⚠	1-451-520-31	DY (Y32RVC3) (KV-32HQ100B/E/K)	
⚠	8-451-538-11	DY Y36DECP-M (KV-36HQ100B/E/K)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
⚠	8-453-022-21	NA2920-M2 (KV-32HQ100B/E/K)	
⚠	8-453-023-41	NA328M4 (KV-36HQ100B/E/K)	
⚠	1-424-888-11	COIL, DEGAUSSING (KV-32HQ100B/E/K)	
⚠	1-456-482-11	DEGAUSSING, COIL (WITH LCC) (KV-36HQ100B/E/K)	
⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
	1-452-094-11	MAGNET, ROTATABLE DISK; 15MM	
	1-452-032-00	MAGNET, DISK; 10MM	

ACCESSORIES AND PACKAGING MATERIALS

	*4-094-059-01	CUSHION UPPER (KV-32HQ100B/E/K)	
	*4-095-022-01	CUSHION UPPER (KV-36HQ100B/E/K)	
	*4-094-060-01	CUSHION LOWER (KV-32HQ100B/E/K)	
	*4-095-023-01	CUSHION LOWER (KV-36HQ100B/E/K)	
	*4-094-058-01	INDIVIDUAL CARTON (KV-32HQ100B/E/K)	
	*4-095-024-01	INDIVIDUAL CARTON (KV-36HQ100B/E/K)	
	*4-206-555-11	BAG, PROTECTION (KV-32HQ100B/E/K)	
	*4-055-672-11	BAG, PROTECTION (KV-36HQ100B/E/K)	
	4-095-835-13	INSTRUCTION MANUAL(GERMAN/TURKISH/GREEK) (KV-32/36HQ100E)	
	4-095-835-23	INSTRUCTION MANUAL(ITALIAN)(KV-32/36HQ100E)	
	4-095-835-33	INSTRUCTION MANUAL(NORWEGIAN/PORTUGUESE/SWEDISH/FINNISH/DANISH/SPANISH) (KV-32/36HQ100E)	
	4-095-835-43	INSTRUCTION MANUAL(GERMAN/ITALIAN/FRENCH/DUTCH)(KV-32/36HQ100B)	
	4-095-835-53	INSTRUCTION MANUAL(ENGLISH)(KV-32/36HQ100B)	
	4-095-835-63	INSTRUCTION MANUAL(BULGARIAN/CZECH/RUSSIAN/ENGLISH/POLISH)(KV-32/36HQ100K)	

REMOTE COMMANDER

	1-478-159-11	REMOTE COMMANDER (RM-940)	